

SKIN DIVER MAGAZINE

MARCH
1960

35c

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BULGARIAN DIVERS
RECOVER GREEK
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Letters

... I have received several letters pertain-
ing to my questions on yellow color being
a dangerous color to wear while skin diving.
A few letters were sent by professional
divers who have been diving for many
years. All of them agree about yellow being
dangerous. One diver said that a cod fish
grabbed a yellow snorkel from his buddy
and swam away with it. In Europe divers
use shiny objects to attract sharks away
from the other divers. Thank you for an-
swering my letter and taking an interest in
a new diver.

Carl Waltman
203 Willis Avenue
Medford 55, Mass.

... Notice to all subscribers in Ontario ...
there was a fire somewhere in the postal
system that damaged many copies of *SDM*
for December. We will gladly replace your
copy if it has been damaged or defaced due
to the fire damage. A post card will do.

SDM Staff

... Recently a letter of protest from the
Moody Air Force Base skin diving club,
Aqua-Gators, was published in "Skin Diver
Magazine." This is not a letter of protest.
We feel the world is quite full enough with
small people who have nothing more con-
structive to do than write letters of protest.
A name, a name, what's in a name. I
think if you will consult Shakespeare you
will find that a skin diver by any other name
smells just as fishy.

For the record though, our name and
emblem were adopted in 1955 and we
hereby allow the Georgia club full rights
and privileges. We wouldn't think of ask-
ing them to change the name of their club.
Nor will we attempt to usurp any of the
glory they claim to have obtained for them-
selves. We have not taken any champion-
ships, state, regional, or otherwise, simply
because we have not entered into competi-
tion for same. The prime intent of our
group is safe skin diving and not publicity
seeking. This could account for the fact
that they had not heard of us before this.
Even the announcement in "Skin Diver"
which prompted them to contact us was
placed there to gain new members, not
publicity.

If they feel the names of our respective
groups needs any further discussion through
the mails I will be happy to correspond. In
my next letter I will include a stack of
membership applications, so that any seri-
ous divers among them may join the Aqua-
Gators of Rockland County and thereby
clear up any remaining confusion about
who's who in the skin diving business.

Tony Kasper, Pres.
Aqua-Gators of Rockland County
55 E. Central Ave.
Pearl River, N. Y.

... Enclosed is a money order for \$5.00 for
a one year subscription. Please send all is-
sues to: The Halifax Memorial Library.

I am acting on behalf of the Halifax
Skin Divers Club who consider it a good
idea to make "Skin Diver" available to the
interested public at no charge in the hopes
of arousing a greater awareness of this
wonderful sport. Perhaps similar action
should be taken by other clubs.

D. R. Grant
Halifax, Canada

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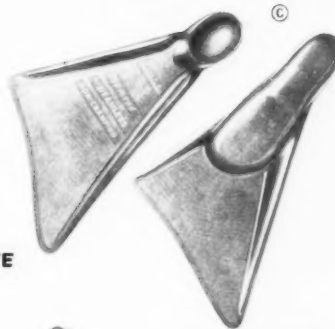
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SKIN DIVER MAGAZINE

LYNWOOD, CALIFORNIA, U. S. A.

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Telephone Nevada 6-0381

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caused by underwater swimming enthusiasts and
to provide an advertising medium for manufac-
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cover

Clear water across the nation beckons more de-
voted to the aquatic sport... Idaho color-clad
divers search the Snake and Salmon Rivers in the
great Northwest for vistas never before explored
or seen by man. Skin diving is being universally
pursued as sportsmen discover the quiet escape of
the serene aquatic world. Magic Divers members
Sid Heinemann, Don Hulme, Jean Fix and Ladd
Smalley enjoy this "real divin' country."

editorial

SKIN DIVER MAGAZINE now has a multitude of new readers
and friends so perhaps this is an opportune time to reiterate our purpose
and policies. We have a proud record of nine years of serving the under-
water populace with a magazine that has never missed a month nor
lessened its quality or format. Always bigger and better, more pages,
more color, more columns, more information... more for the subscribers
purchase price with each issue.

SKIN DIVER MAGAZINE is now, as it has been since December
1951, the spokesman for the diver. Each issue contains direct reports
from aquatic people from the four corners and the middle of the United
States as well as several foreign countries. These reports are published in
several forms... some are full feature length articles, some are announce-
ments, some are letters, some are club reports in the back section of the
magazine. Regardless of the form of the report in the magazine the in-
formation comes direct from the diver or from his actions. SDM is more
than the spokesman for the diver... it is the diver speaking for the diver
to the diver and to the general public.

SKIN DIVER MAGAZINE welcomes articles and stories—reports
—from each and every diver and underwater organization in the world.
We can't guarantee that it will be published in the magazine immediately
... but we can guarantee that it will receive our utmost in thought and
consideration. Articles should carry a straight message and be based on one
of several themes... actual happenings, first in history, education, new
development, scientific, equipment improvement, entertainment, informa-
tion.

SKIN DIVER MAGAZINE is thus the spokesman, as you speak!

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(Continued on Page 8)

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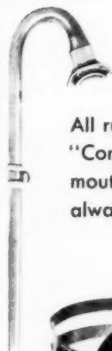
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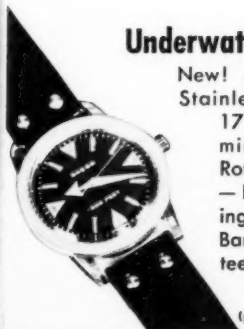
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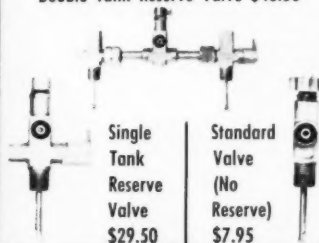
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Taylor Instruments **MEAN ACCURACY FIRST**

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No longer will the wife complain about the beach living. Double your diving time and follow the sun to clear water with a camper built with you in mind.

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Letters

(Continued from Page 5)

... I wish to express my appreciation to all the people of San Diego who helped me get in some salt water diving while I was there during Christmas vacation from college.

I knew no divers in that area, so I wrote Keith Kaonis, who I noticed in "Skin Diver Magazine," wrote the report for the San Diego Council of Skin Diving Clubs, Inc. He filled me in on diving conditions, marine life in season, equipment needed, etc.

I visited the diving stores when I arrived and got some fine leads on how to get partners with whom to dive. I called Charles Frost, president of the Kelp Kings, who was sorry he couldn't go himself, but gave me a list of club members he thought would be going. I called Jim Northrup who invited me aboard their boat to go down after bugs. Jim and I made two dives to a depth of approximately 50 ft.

It was a thrilling experience for me since it was my first dive in salt water with my lung, and my first dive to that depth. The bugs were abundant and delicious.

I want to thank Jim, Bob, and Bud (very experienced divers) for helping a fresh water man get wet while on vacation, plus showing me the art of getting bugs. Everyone lending a hand was extremely courteous, kind and helpful.

Dwight K. Paxton
702 Terrace Apts.
Pullman, Washington

... Some months ago "Skin Diver Magazine" came into my hands thanks to the Portuguese team (if I am not mistaken). It is the edition of November 1958. It is a sensational magazine and I am going to do my best to introduce SDM to the rest of the Malta Sub-Aqua Club. I started this fascinating sport four years ago at first with home-made guns. Later I bought the Saetta, an Italian gun of Cressi and now I have the Cernia Sport, also of Cressi. I am 17 years old, though a little young for this sport I aim to go on. Would you be so kind as to find me a skin diver of my age with whom to correspond. If possible an American and also if possible a girl. Letters are to be sent to me at Stella Matutina House, Marsa Road, Marsa, Malta.

Joseph Debono

... We, the members of the Lone Star Divers of Ft. Worth, Texas, have a problem that I am sure must face many diving clubs, that of a place in which to hold meetings, and of an indoor pool for winter training.

The man in charge of the local Y.M.C.A. is against divers from the word "Go." We plan to talk to him and try to get his permission to use the "Y." To do this, we need the names and addresses of a number of clubs who use the facilities of Y.M.C.A.'s over the country. We then plan to write to the clubs for information on how they work out their problems. A friend with whom I dived on Guam has offered the help of the Y.M.C.A. in Gary, Indiana. We would appreciate it very much if you could find time to supply us with a list of clubs who use Y.M.C.A.'s throughout the country.

Thank you for your time and attention in this matter.

Randolph L. Dellis
4012 Wiman Drive
Fort Worth 19, Texas

(Continued on Page 10)

SKIN DIVER—March 1960

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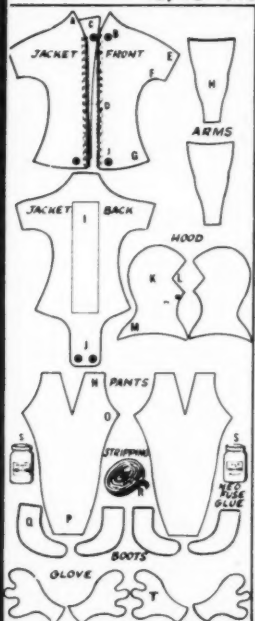


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T. New Long Glove Mitts

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Letters

(Continued from Page 8)

... One weak spot in our publicity of the Underwater Society of America has been the lack of suitable photos and I will appreciate a mention of this fact in a future issue. Any shots sent to the Society and subsequently used for publication will receive the usual credit line for the photographer or contributor.

John J. McAniff
Director of Publicity
Underwater Society of America
P.O. Box 724, Sta. A
Champaign, Illinois

... The testimonials were grand about our good friend Mike Nelson but how many of our friends went diving with this great example of what Hollywood can do to the effort we have all made to make scuba diving a safe and serious business and sport. Before bestowing honors let us all take a serious look at what "Sea Hunt" really represents. It has made a joke of the "buddy system," Mike doesn't need one! It professes to be based on true adventures or possible happenings—everyone who dives knows just how absurd these claims are. Representatives maintain that any little discrepancy is due to the fact that "Sea Hunt" is for entertainment purposes only. This same statement is used by TV quiz programs!

If we, as a group, are to maintain our integrity and progress in developing means of safely penetrating into the underwater world, let's be serious about it and get rid of this "gobbly-gook" that is passed out by Hollywood TV writers as being representative of the way people work and act underwater.

Since I am on my soap box I might also add that it appears to me that much too much work is being done at the conference table, in committee meetings, and in so called national organizations which are composed of persons who are hardly qualified to dive in a bath tub. I would like to see more emphasis on group development of new equipment and techniques of working underwater, more well written reports of new and interesting areas to dive and the specific things that make them different from other areas.

We need an organization to represent skin divers. We need conferences, but in Houston, Texas where the nearest water for diving is a local swimming pool? Are the persons who supposedly represent us so devoted to their paper empire that they have forgotten (or possibly have never experienced), the wonderful experience and pleasure that is derived from diving with a "buddy" from a different area and later going over what they saw underwater? To gather together a group of divers and not make at least a few dives in local waters (which should be the main consideration as to location of any convention of a so-called underwater organization) is in my opinion a very bad sign as to what is really being done on the national level to the skin diver. Is the diver really being represented, is his best interest being served by diving representatives or those who are more interested in paper organizations?

Robert F. Dill
Marine Geologist
San Diego, Calif.

• Easy to
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PROFES
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A lighter
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AT DIVING
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BIG NAME Divers Say:

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Tell Us Skooba-"totes" Are Just What They

Need for Deep Dives in Coldest Water.

(You are invited to inspect names, letters on file at factory)

"Warm After 2 Hours in Frigid Maine Water"

In all my years of diving, service and civilian, I have never used a finer suit than Skooba-"totes." Strong, warm, comfortable, they're tops. No words can describe them as well as trying them once.

"Very Satisfactory Under Extreme Cold Temperatures"

Our safety and equipment director has tested Skooba-"totes" seven times under extreme cold temperatures and it has proven very satisfactory. We are more than pleased with this suit and want to equip our men with it.

"Work for Hours Underwater in Skooba-"totes"

The Skooba-"totes" tough, seamless rubber makes it the ideal suit for rough salvage work . . . or for pleasure diving. It's the only suit for diving at greater depths and in coldest water. I couldn't work for hours underwater without my Skooba-"totes."

"Returns to Boat Frozen in 1/4" Wet Suit"

One day after I had been down for about 20 minutes, I returned to our boat almost frozen in spite of the fact that I had a new 1/4-inch wet suit. The next day a friend suggested that I try his Skooba-"totes" in place of my wet suit. I have never been more surprised. After two hours I came out only because I was out of air.

"Breaks Ice in Green Bay— Stays Dry and Comfortable"

On November 22 I tried the suit in the lake using thermal underwear underneath. The water temperature was 35 degrees. The suit kept me perfectly dry and warm.

"Best Suit Yet in Fifteen Years of Diving"

I purchased one of your Skooba-"totes" last year and found it to be the best suit I have used in fifteen years of diving. I would like one each in sizes small and medium.

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PROFESSIONAL SKOوبا-"totes."

Our finest! Heavier gauge pure gum rubber. Includes: Hooded Shirt, Pants with double-ply feet, and speed patch kit. In Brown. (Shirt with separate hood optional.) . . . \$29.95

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A lighter gauge pure gum rubber suit. Includes: Hooded Shirt, Pants with Feet and Speed Patch Kit. In Safety Yellow. . . . \$22.95
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Personality Spotlight

By CONNIE JOHNSON

ANDY RECHNITZER

A series of three deep dives by the bathyscaph "Trieste," each breaking the existing record deep dive, are currently highlighting diving news.

Dr. Andreas B. Rechnitzer, senior scientist with the group, accompanied the Trieste's designer and builder Dr. Jacques Piccard on the first dive which descended a record 18,600 feet into the Marianas Trench off the Marianas Island in the Pacific Ocean.

Dr. Rechnitzer is an oceanographer at the U. S. Navy Electronics Laboratory where his current assignment is scientist in charge of the bathyscaph project.

On the third dive the Trieste descended to the bottom of the Marianas Trench—37,800 feet, a depth of more than seven miles. The record dive proved the trench was 2,800 feet deeper than previously believed. A Russian oceanographic ship in 1957, using sounding equipment, listed the depth of one of the deepest holes in the ocean at 35,000 feet.

Andy's interests have always leaned strongly toward biology and particularly fish. He said that they always kept several large pools at home full of fish and associated fauna. During the summer months these were transferred to other pools and one was made available for swimming. Despite their efforts biological intruders frequently appeared such as diving beetles, dragon fly larvae and toads.

"Realizing that life in the waters was so varied, I made my first diving mask in 1939. Finding the mask useful for the limited fresh water ponds around Escondido, I decided to try it at Oceanside where we swam every Sunday during the summer. I clearly remember my first view of a school of corbina. This was the start! Only a few opportunities to see the underwater world in the ocean were available to me at locations other than La Jolla and Oceanside. My interest, however, was sufficiently whetted so that additional opportunities were taken advantage of when available.

"My real interest in skin diving arose during my tour of duty with the U. S. Navy. The queen conchs of Miami Beach, Florida, were few and far between. It was frequently necessary to swim at least a mile parallel to shore scouring the sea floor for these molluscan beauties. Warm clear water and a lust for swimming to recover one of nature's jewels sent me on my way to a happy, but unsatisfying skin diving adventure.

"After Miami in 1945 I was sent to Pearl Harbor where my skin diving interests were expanded. Unfortunately, a two-year interruption ensued when I moved to Michigan for educational pursuits. Immediately after receiving my B.S. in zoology from Michigan State University, I scooted back to California at UCLA. Academic reasons restricted my activities for the first year, but from 1949 until today

(Continued on Page 42)



Dr. Andreas B. Rechnitzer



Operators of the Trieste, (l-r) Larry Shumaker, Lt. Don Walsh, Andy Rechnitzer and Jacques Piccard. Andy is scientist in charge of the depth setting records and was aboard the bathyscaph on its first record dive. Walsh and Piccard took the Trieste down to the floor of the Marianas Trench, over seven miles beneath the ocean surface.

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7. BICEP

DIVE

SKIN DIVE

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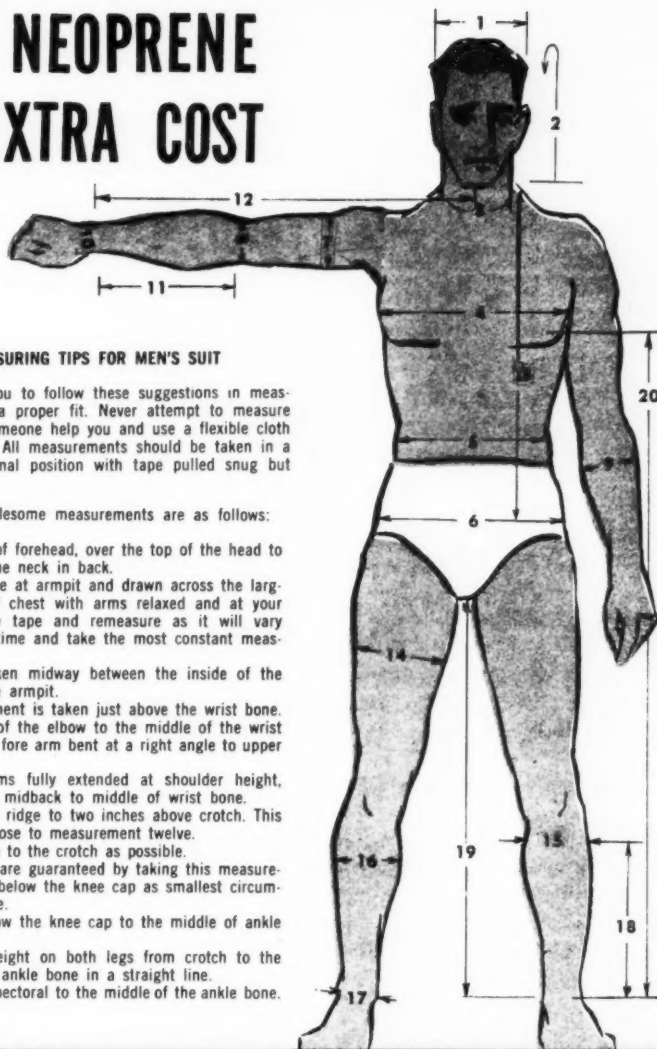
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MEASURING TIPS FOR MEN'S SUIT

We would like you to follow these suggestions in measuring to insure a proper fit. Never attempt to measure yourself, have someone help you and use a flexible cloth tape if possible. All measurements should be taken in a relaxed and normal position with tape pulled snug but not tight.

Tips on troublesome measurements are as follows:

2. From middle of forehead, over the top of the head to the base of the neck in back.
4. Tape should be at armpit and drawn across the largest portion of chest with arms relaxed and at your sides. Remove tape and remeasure as it will vary slightly each time and take the most constant measurement.
7. Should be taken midway between the inside of the elbow and the armpit.
10. This measurement is taken just above the wrist bone.
11. From the tip of the elbow to the middle of the wrist bone with the fore arm bent at a right angle to upper arm.
12. With both arms fully extended at shoulder height, measure from midback to middle of wrist bone.
13. From shoulder ridge to two inches above crotch. This will be very close to measurement twelve.
14. Taken as close to the crotch as possible.
15. Better results are guaranteed by taking this measurement directly below the knee cap as smallest circumference is here.
18. From just below the knee cap to the middle of ankle bone.
19. Taken with weight on both legs from crotch to the middle of the ankle bone in a straight line.
20. From base of pectoral to the middle of the ankle bone.

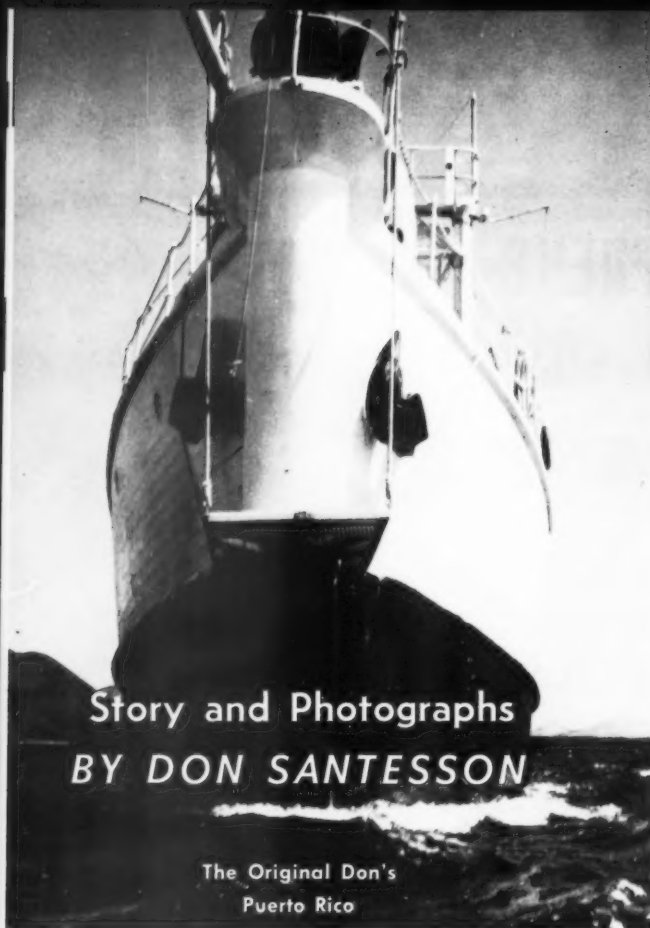


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| 1. AROUND HEAD MEAS. | _____ | 8. ELBOW | _____ | 15. KNEE | _____ |
| 2. BACK NECK TO FOREHEAD | _____ | 9. FOREARM | _____ | 16. CALF | _____ |
| 3. NECK | _____ | 10. WRIST | _____ | 17. ANKLE | _____ |
| 4. CHEST | _____ | 11. ELBOW TO WRIST | _____ | 18. ANKLE TO KNEE | _____ |
| 5. WAIST | _____ | 12. WRIST TO MID BACK | _____ | 19. ANKLE TO CROTCH | _____ |
| 6. BUTTOCKS | _____ | 13. SHOULDER TO BUTTOCKS | _____ | 20. ANKLE TO PECTORAL | _____ |
| 7. BICEP | _____ | 14. THIGH | _____ | 21. HEIGHT | _____ |
| | | | | 22. WEIGHT | _____ |

DIVE N' SURF 504 NORTH BROADWAY • REDONDO BEACH, CALIFORNIA



Story and Photographs BY DON SANTESSON

The Original Don's
Puerto Rico

MY DAYS ABOARD THE CALYPSO

I HEARD that the famous oceanographic survey ship, Calypso, was to arrive in Puerto Rico to stand by for the Commandant Jacques-Yves Cousteau, who arrived later by airplane from France. I received a phone call from my friend Harry Fridman telling me that he was aboard the Calypso and that they were planning a reconnaissance group of two of the ship's crew and National Geographic reporter, Nat Kenny, to go out with me in my boat. I went to the ship and met Harry who introduced me to Capt. Saout, Dr. H. E. Edgerton of Massachusetts Institute of Technology, Alberto Falco, Nat Kenny, and various crew members. After a brief talk we decided to get my boat and try diving near the Caribe Hilton.

With Chief Diver Alberto Falco, Armando Davso and Nat Kenny, I returned to pick up the diving equipment and the boat. We were just leaving when Serge Contastin stopped, so we all went in the jeep to launch the boat. However, after arriving at the Hilton we decided against launching there, because of rough water and left for the Boca de Cangrejos landing. The sea was spotted with land swells and white cap breakers. We were doubtful whether we should attempt to go through or turn back, but decided to try and all went well until we were faced with a huge high rolling wave on our starboard which I spotted in time to take on the forward quarter. No sooner had we fallen to the bottom of this when a tremendously high rolling white cap wave came bearing down on us. I did not think we would survive. When the cap broke into the boat we were swamped but the faithful motor continued to run and we kept on moving slowly out beyond the breakers and were now in a safe position. All of us used what we could to empty the boat of the water we had taken aboard, which was enough to reach within two inches of the height of the transom. Everybody was thankful we came through all right, and Serge, who came along to watch and not swim, was wetter than the rest as he had on all of his clothes.

We located a spot we felt would be all right and Falco, Davso and myself got our lungs ready. Then we found we had left one box behind containing Davso's equipment. I had brought extras and all was well as Davso improvised a harness out of string, belts, etc. We all dived and went to the bottom to check the depth and conditions. Smooth bottom was what we found and very few fish. We were working in 60' to 65' of water and there wasn't anything of interest but we continued until we exhausted our air supply and then we went aboard. We decided to return to shore by making the trip through the ship's channel at El Morro.

After an uneventful return trip, we tied up alongside the Calypso and were invited to eat aboard. We were treated with different types of cheese and meats, a special French type sausage which is served cold, a goose liver meat loaf spread and special wine from the Calypso holds. Serge and I showed Falco and Davso a few of the local attractions. After a normal evening I left the group and they continued to see the high and lows of San Juan.

Friday, October 1, 1959—I went aboard the Calypso and met Dr. H. E. Edgerton of M. I. T. He was working on one of his several cameras and I decided to help as it was extremely warm and the cameras were very heavy. I assisted him until nearly 10:00 a.m. The Captain of the ship told me I could make the trip and that we were to leave at 4:00 p.m. Just as soon as lunch was over I packed my suitcase and left for the Calypso with clothes for three or four days and some diving gear in case we do get to do some diving.

4:30 p.m.—We are on our way out of San Juan harbor and Luis Merino, Panzardi and Rodriguez, etc. are escorting us to the mouth of El Morro. We stand by a few minutes until one of the cameras can be adjusted and the battery charged and installed. We are now under way.

6:00 p.m.—Super time and it is really a pleasure to eat as you always have different food and very neatly presented, especially the salads.

Saturday, October 3, 1959—They are preparing the anchor and reel of nylon to drop off into the trench as soon as located. Dr. Edgerton is checking out his cameras to be sure they are all in top shape. At 9:30 a.m. we start to drop the 14 lb. anchor. We drop anchor until nearly 3:00 p.m. While the anchor is being set they are preparing a balloon called a kytoon to be tied to a buoy, which is to be fastened to the nylon line coming up from the anchor.

After 3:00 p.m. Falco and Maurice lower the inflatable life raft and put the outboard motor on it. Falco gives it a fast tryout and it works fine. Now they are ready to carry the kytoon out to the anchor buoy and make it fast.

All is set and the kytoon seems to be drifting. They are doubtful if it is holding but after a second check it is decided it is holding and we leave it behind to start surveying the trench using the fathometer and the radar to keep the position of the tin foil covered kytoon. They start a zigzag course and keep this up until nearly 11:00 p.m., when they lost the kytoon on the radar screen. I have been helping by taking the readings every five minutes and calling them to the mate on watch who records them with the position given to him by the Captain at the ship's helm. We are running the automatic pilot. I left the bridge at 11:00 p.m. and went to my quarters. I slept well and awoke at 6:00 a.m. to find they have discovered the kytoon skipping along on top of the water. Upon inspection it appeared that the fish have chewed off the line that held it to the buoy, so it is loaded aboard and we prepare to locate the trench again. The second anchor is much heavier (20 kilos, not seven as the first). The trench is found and the anchor dropped. It is descending very rapidly and the cameras are being prepared to be lowered. The last minute checking is done and the battery installed. The sonar is connected and the camera is lowered at 4:30 p.m. All is well for a few minutes. Then the sonar stops. The winch was stopped and the camera hauled aboard. The battery of the sonar is removed and there is water inside, so it is decided to dismantle, dry, check for the leak and to install a four hour time clock instead of the two hour one. The purpose of the clock is to delay the camera for four hours before it starts to take pictures which is the time expected for it to reach the bottom.

After testing the tube in the ocean it was found that a weld in one of the covers was leaking and the Chief Engineer went below to drill and re-weld. At 9:30 p.m. the camera is ready and lowered into the water. There is a constant contact by sound until it reaches 8,180 meters. Then it stops. The camera's frame work turning over after striking the bottom caused the sound beacons to be flashed with negative results on the surface. At 6:30 a.m. Monday, the camera was brought aboard while it was raining and mud was found in the framework channel of the camera. A close inspection by Tom Abercrombie revealed a crack in one of the protector lenses of the camera. In dropping the camera, the location of the second kytoon was lost.

3 o'clock—we are ready to drop the undersea sled (tryka) with the other cameras mounted into the trench. We expected trouble from the ship's winch while working with the sled. After dropping nearly 3,000 ft. it happened. Sev-

(Continued on Page 30)



The saucer rests on its pad on the stern of the Calypso after a 165 ft. test dive near San Juan. Man in the entry port is Andre Leban, technical chief of the expedition.



Don Santesson, Capt. Cousteau, Dr. Edgerton and Carleton Ray observe launching proceedings of the saucer during the tests. Below, diver Tom Abercrombie checks the plastic shields on the saucer before it is completely submerged on a depth and photography plunge.



A black and white photograph showing a crowded deck of a ship. Numerous people, mostly men, are visible, some looking towards the camera. The ship's structure, including railings and a porthole, is visible on the left. The word "BULGARIAN" is printed in large, bold, sans-serif capital letters across the upper right portion of the image, with the letters "GRE" from the word "GREEK" visible below it.

AS USUALLY happens our discovery was quite accidental. During the month of July members of the Bulgarian Subaqua Club were training in Sozopole. One day a group of fishermen approached us to aid in recovering some anchors their ships had lost in the proximity of Cape Maslen, along our southern coast.

It was early in the morning when our small fleet cast anchor in the calm cove south of the cape and the first scuba divers impatiently disappeared underwater.

A few minutes later university student Doncho Papazoff popped to the surface, took out his mouthpiece and cried, "Amphorae!" As he raised his hands we saw two wonderful fragments of amphorae covered with barnacles and sea weeds.

Soon they all returned to the ship and laid down their trophies. When the lost anchors were discovered we left the thankful fishermen and continued to look for amphorae. This exciting archaeological underwater exploration lasted all day. The bottom of the whole cove was covered with amphorae. Every 10-15 feet a new find

was awaiting us, huddled up among the rocks. When we returned to Sozopol late in the evening, we had a rich collection of amphorae of almost all epochs—ancient Greek, Roman, Byzantine and medieval Bulgarian.

If the story were to end here, there would be nothing remarkable as amphorae have been found almost everywhere along our coast. But the greatest surprise came on our last day in Sozopole.

On this day we were divided into two groups. I went with the group planning to investigate the wreck of the ship "Rodina" torpedoed during the last war. The ship was in 130 feet. The other group went back to Cape Maslen.

When we met the same evening at our small camp, a great surprise was in store for us. Our friend Alfons Dimitroff had found an amphora filled with grease. He was not happy at all. He had found the amphora intact and while wading to shore was knocked down by a wave. The amphora hit a stone and was broken.

Alfons took me to the sloop and showed me all that remained—a mass of white grease and the pieces of the amphora. Some of the pieces had old cracks which proved that the amphora had been broken long before but the grease had held the artifact intact. Even this argument could not calm Alfons.

The grease was white and had a light but not unpleasant rancid smell. I took the upper part of the amphora to be dated by specialists and filled a tin box with grease to be analyzed in a chemical institute.

Several days later Alfons told me the whole story: "It happened near the Snakes Island. I was on the bottom at about 60-70 feet for quite a long time and had already opened the re-

serve, when suddenly I noticed the neck of an amphora sticking out of the sand. At first I thought it was only a fragment. I tried to pick it up, but it clung strongly to the bottom—it was a whole piece.

"I started to dig it out. It was not a very easy matter. The air in the apparatus was at its end and breathing became harder and harder. I clenched my teeth and went on digging. At last, half suffocated, I succeeded in pulling it out and surfaced. It was really at the last moment—later when I checked the manometer the dial's arrow showed zero.

"I hailed the ship several times, but since I was quite far from her, they did not notice me. She was further away than the coast, so I headed directly to the beach.

"It was very tiresome indeed. I was swimming with the empty lung on my back and with the heavy amphora in my hands. I still thought it was full of sand. The sea was very rough and the choppy waves incessantly flooded my snorkel. Almost at the beach's edge a larger wave hit me, hurled me and I dropped the amphora. I dived and found it broken into pieces. I dived again, gathered what I could and . . . the rest of the story is already well known to you."

This interesting find excited our archaeologists. The first examination proved that it was an ancient Greek one, but the exact date of the amphora will be the task of future examinations. This is a very important discovery—amphorae filled with grease have been found before, but they were always Medieval. By the way, Bulgaria was a large scale exporter of fats and oils.

The grease is now in a research institute for examination. The first tests
(Continued on Page 43)

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SKIN DIV

FORMER PASSENGERS, DECKHANDS AND CELEBRITIES

The MARAY is closing up shop! Due to circumstances beyond my control, (Money, more of it elsewhere) all "passengers for hire" operations have ceased. After some face lifting and paper changing, said former scow will be known as MARAY, yacht 3rd class.

Prior to this miraculous transfiguration, you are welcome to be a guest on one last Catalina 'open trip' to solemnize ten continuous years of plowing the Catalina Channel. Two trips are planned: this Sunday, February 14th, and Sunday, March 13th. Point of departure: Long Beach Marina, slip 191. Time, 0730 (7:30 a.m., you landlubbers).

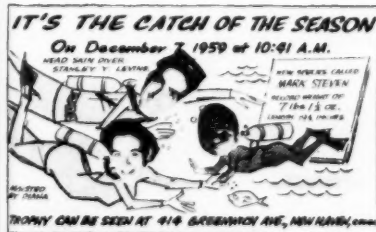
Of course, being photogenic enough to qualify as a freeloader, a signed model release will be required (and bring your own props, too). To soothe nerves shattered by the din of clicking shutters, refreshments will be dispersed during the long, long ride back. Hope you can make it. If so, give me a call. P.S. Free air refills. Mart Toggweiler.

SKIN DIVERS, MARK YOUR CALENDAR

The New Orleans-Grand Isle Scuba Divers International Tournament will be held on August 16, 17 and 18. These dates have been selected with the particular thought that divers attending the Underwater Society of America Convention in Houston on the 21st and 22nd of August will be in the immediately vicinity.

A quick drive from New Orleans can be made to Houston immediately following the scuba contest with plenty of time to arrive at the Shamrock Hilton Hotel for the convention. Officials of the scuba contest and local divers have already made plans for a full week of diving in the contest and then topping off the weekend with the convention in Houston.

Once again, come on in . . . the water's fine. Address all requests for information to the New Orleans-Grand Isle Scuba Divers International Tournament, Inc., P. O. Box 127, New Orleans.



GREAT BRITAIN SPEARFISHING OPEN

The National Open Spearfishing Championships of Great Britain for 1960 will be held at Looe, Cornwall, England, on July 30.

The competition is open to the world for any person who is a member of a recognized club. Entry forms and additional information can be obtained from: The Championships Steward, The Spearfishing Club of Great Britain, Avondale Villa, Hannaford Road, West Looe, Cornwall, England.

CUBAN UNDERWATER SPORTS COMMITTEE ORGANIZED

The Instituto Nacional de la Industria Turística (INIT) of Cuba, has appointed Captain Armando J. Piedra, Chairman of Underwater Sports, who organized a meeting that took place in the roof-garden of the Sevilla Biltmore Hotel in Habana, with the assistance of the following representatives:

Dirección General de Deportes, the advisors: Manuel Ayus, Donato Corujo and Johnnie Fernández.

Federación de Caza y Exploración Submarina de Cuba: Dr. Ignacio Silverio and Joaquín Trias.

Asociación de Cazadores Submarinos de Cuba: Fernando Martín and Julio Enrique Valladares.

Special guests were present: Israel Gónzaga, Lillo Jiménez, Roberto Jiménez, Eddy Francisco, Dr. Emilio López Centella, Armando Bianchi, Humberto Rodríguez, Dr. Ignacio Silverio, Joaquín Trias, Mario Acosta, Julio E. Valladares, Fernando Machín, Dr. Manuel Cobo Souza, Dr. Ulises de la Vega Díaz, Norberto Coya, José Luis Grijivo, Manuel Bell y Ester Machín.

The purpose of this meeting was to work out a plan for the development and promotion of all underwater activities in Cuba.

A thorough analysis of the underwater activities in the nation was made by Captain Piedra who made several propositions which were all accepted. It was agreed:

1. That the INIT will sponsor and support all international underwater competitions with the cooperation of the Dirección General de Deportes and the Federación de Caza y Exploración Submarina.

2. That the INIT will back all institutions of underwater sports.

3. That the INIT, through the Cuban State Department, will immediately start all the arrangements for the integration of a Central America and Caribbean Committee for the annual celebration of an International Underwater Spearfishing Championship. The first to take place in Cuba in 1960.

4. That the INIT should immediately contact Mr. Serge A. Birn, Chairman of National Competitive Skin Diver Committee, A.A.U., as well as the executives of the Underwater Society of America to start the arrangements for the 1960 International Spearfishing Championship.

5. That the INIT will call for another meeting which will take place in the Executive Room of the Riviera Hotel in order to coordinate the cooperation of all institutions.

6. That the Dirección General de Deportes and the Federación Nacional de Caza Submarina will organize the championships of all provinces as well as a national championship, with the cooperation of the INIT.

7. That the result of this meeting should be published in *Skin Diver Magazine*.

It is hoped that a very successful International Championship will be held in Cuba with the assistance of most countries of our continent.

FINAL RESULTS OF NEW ORLEANS SCUBA DIVING CONTEST 1959

On January 4th, winners in the New Orleans Scuba Diving Contest were declared. The Dixie Divers Club will receive the Championship Cup for the 1959 Contest. King Spearfisherman was selected on a special point system, classifying fish according to difficulty in locating, rarity of type, danger involved, and, of course, top weight of the six different categories. Additional points were awarded on a 1st, 2nd, and 3rd place basis.

Dick Alba, 1960 president of the Dixie Divers Club, is winner of the King Spearfisherman Award. Runners-up were Roland Riviere, Jr., Huell Scott and Jay Albanese in the same order. Dick's wife, Marcie, will receive the Queen Spearfisherman award.

Fish eligible in 1959 were Jewfish, Cobia, Barracuda, Jack Crevalle, Red Snapper, and Sheepshead. Plans for 1960 include the addition of two more species. Warsaw Grouper and Amberjack. Invitations to other clubs in the Greater New Orleans Area have been extended to compete in the contest in 1960.

This contest and point system has proven to Louisiana Divers that "selective" spearfishing is certainly far more sporting and that this type of fishing is one of the greatest conservation efforts inaugurated into our sport.

SOUTHWEST COUNCIL

All clubs wishing to join the Southwest Council of Skin Diving Clubs, please contact our corresponding secretary Miss Joyce Sims, 2210 Kipling, Houston 6, Texas

This year's dues for both new and old clubs which were not represented at the last Council meeting will be \$10 per club and \$2 for each member. Dues are payable on or before June 1, 1960, to Bill Flagg, treasurer, 2719 Live Oak Street, Dallas, Texas. This amount will include dues to the Southwest Council as well as the Underwater Society of America.

ARRIVED!!

In nineteen hundred and sixty-two
I may be able to dive with you.
But—so far I haven't tried
Because, you see, I've just arrived.
Daddy—Parry Bivens
Mommy—Zale (Perry) Bivens



MARGARET ZALE BIVENS
6 lbs. 8 oz.
was born at the
Glendale Community Hospital
the Fourth Day of January
Nineteen Hundred and Sixty
11:05 a.m.



The Phenomenal Frame

By

A. L. ANDERSON

"When it comes to ice diving, I'm proud of the yellow streak right down the middle of my back—of course the tank hides this." Then why does she go out to winter sites where the ice has to be chopped away before one is able to dive, letting herself down a life-line, hand under hand?

With a mock shudder and a contagious grin, Ann Frame will add, "And I hate being cold." In spite of all her protestations to the contrary, this extraordinary miss actually derives considerable pleasure in plumbing the 40 degree depths of Racine Quarry or Lake Geneva in the balmy month of January or so, naturally in company with skin divers whose abilities are akin to her own.

To quote Ann again, "Confidentially, I'm a lousy diver—but I'll bet I can talk a bigger dive'n you anyway." She will admit this cheerily and readily upon the slightest provocation. Only her whole appearance belies a self-belittling tongue.

Ann Frame of Chicago is the personification of skin divers' rebelliousness of spirit and independence of action. It shows in every inch of her Junoesque figure, mirrored in the saucy glint of hazel eyes, every fluid motion, that this perky young lady is the very essence of skin diving's young enthusiasm. It shows in her alert self-reliance of manner, that here you are talking with an unusually expert girl diver, in fact the most outstanding of Illinois.

Irrepressibly adventurous, loyal and hard-working, Ann is capable of tremendous drive and just never unwinds. Prior to April of 1958 when she first discovered scuba diving, she was a trained gymnast and an excellent swimmer. She had already done some skin diving while in Cuba about six years ago. She was taught scuba at Chicago's Austin YMCA. Her instructor checked Ann out at Lake Geneva, Wisconsin, the following month, and became her first regular diving buddy.

Of that first dive in open water,

Ann says, "So there I was, floating in 20 foot water, and I didn't want to look underneath. I was just plain scared.—Well, I figured it was now or never, so I dived—followed down to 25 feet into the more unspectacular part of Lake Geneva's UW scenery." At least that is what she reports in retrospect. In view of her unbridled enthusiasm, it is unlikely that this was really her first impression.

Although the farthest down she's ever gone is a matter of only some 115 feet, how far she has gone into various phases of skin and scuba diving in less than two years since she first took up the sport, is nothing short of phenomenal. She skin dives to 50 feet regularly and has logged in excess of 50 hours in weekend scuba-ing. Ann has taught both theory and pool sessions for more than a year, for the Chicago YMCA with which she holds an instructor's card, the first issued to any girl. She has won medals competing against men in YMCA meets; holds the 1959 Women's AAU Spear-

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Ann has dived just about every lake, quarry and river in the Chicago area and currently operates a course of her own for a large industrial plant where she is employed as a secretary, on Chicago's Northwest side. Proud of her amateur status, she receives absolutely no remuneration for all the time she devotes to promoting her sport. She has organized the Motorola Spear & Fin Club which she has fond hopes of being the start of a new industrial UW league in Chicago. She is the only girl to have been actively involved in the recent raising and salvaging of a giant seaplane, spent more than thirty hours of her spare time working in the water on the project. She accomplished more than forty successive skin dives to 25 feet to supply inner tubes, during one phase of work on the sunken plane. Ann has, as a matter of fact, completed an article regarding this salvage job which we trust to see soon in "Skin Diver Magazine."

In September, Ann was the first girl to be elected to the IC Board of Directors where her mania for work has spurred the others to greater efforts.

Most recent newsworthy ventures indulged include diving for stolen cars with the IC's URT in Lemont Quarry, being the Control Officer in charge of communications and transportation at the Parkinson search off Chicago's Gold Coast district.

This amazing girl is equally versatile with a typewriter as witness her editorship of "Ebb Tide" which she has gotten out for YMCA divers, and her editorial status with the IC's "Divers' Delegate."

Her journalistic ventures, delving as they do into factual material, do not afford Ann opportunity for her vivid imagination. She has a mind that is alive with fantasy and the sheer romantic.

"My ambition?" crinkling her nose and with eyes alight, she'll tailor-make her ambitions afresh each time. "I want to hop in the tank at the Ivanhoe (a prominent Chicago night spot featuring a tank of some 30 gal. capacity) and spear myself some trout. Wouldn't it be hilarious if I tried it in the nude?"

She has been instrumental in the finding and presentation of fresh movies for diving clubs. Noteworthy among these films were the U. S. Navy's "Frogmen" and "The Sea Around Us."

Most important of independent

Chicago skin diving promotions, and but recently brain-stormed and activated by Ann, is the Friday Night Work Shop, a service and lending of facilities to the do-it-yourself divers who are welcomed from all clubs to pursue any reasonable projects, short of building dive-boats, in the basement of the Skin & Scuba Diving Shop of cooperative "Babe" Weimar. Free refreshments, monthly movies and complete freedom of movement with no strings attached, these are features which has veritably made a club of clubs, and a constant interchange of ideas between the various clubs as has never before been effected anywhere in this area.

What with teaching, attending council and committee meetings, practice sessions with her club and putting copy together for "Divers' Delegate," Ann has no free time and gets the bare necessities of sleep. "It's not the burning of the candle at both ends, it's the one in the middle that bothers me," she asserts.

Attempts to reproduce the pungency of her remarks is near futile. The flavor of her speech simply does not translate fully onto the printed page. Partly the manner in which she hangs her words together, partly her tone of voice, mostly the projection of a strong and vibrant, fun-loving personality that overpowers a person unprepared to meeting Ann Frame.

Counted among her loyal supporters and best friends are the members of the Chicago Submariners with whom Ann most frequently dives. It figures rightly that a girl of her caliber would naturally associate herself most closely with a top-notch club.

Ann is treated with deference and respect by the divers, not because she ever insists upon it, but because she has earned this treatment. On dives, she abides religiously by the code and may always be depended on to do her share; in consequence, her own code is inviolate.

Ann alternates between a 72 and a 40 rig for her Dacor regulator, effects her self-tailored 3/16" Coronado wet



Twelve pound carp speared by Ann qualified her team in the A.A.U. competition in Lemont Quarry. Other diver with Ann is Nancy Narbut.



Ann jumps for another inspection of the giant PBM seaplane that was raised from dockside in Lake Michigan. John Young Photo.

suit (supplemented by a Bel-Aqua dry suit for those ice dives), the Swimaster wide view self-purging mask, and Duck Feet. For her carp chasing she gets excellent results from a Spirotechnique Atom which she insists is all the gun she needs.

When asked about her favorite diving site, she really clams up. She puts you off quickly by saying all kinds of nice things about her bath tub. "There's the clearest water in town, even with the suds!" and brags about how she can hold her breath from one end to the other of this bath tub.

Always eager to lend intelligent cooperation to any project for the cause of skin diving, nothing can sway or deter her, once Ann's mind is made up. This is the kind of loyalty with which she serves herself and the Illinois Council. This willingness combined with a rare adaptability makes Ann invaluable in the teamwork required either on a dive or on Illinois Council committees.

There could not possibly be much to this young lady's home life, considering the scope of her activities. Her TV fare is confined to rare viewing of color spectaculars; the phonograph is used even more sparingly for recorded Shakespearean tragedies. Sporadic reading of other than skin diving matters revolves between best-sellers and mysteries.

Infrequently she allows herself a night out, keeping these dates completely separate and apart from her skin diving. However, Ann's boy-friends suffer a pretty bad fate, having to eternally play second fiddle to the least important chores in the realm of Ann's hobby. She has to tell these swains: "Don't you call me—I'll call you," or "Call me at such-and-such a time, I should be near such-and-such a phone by then."

Oftentimes the date becomes cancelled, as Ann will have gotten herself so involved in a meeting or skin diving argument she cannot possibly leave, to pursue the private life she has so precious little of.

Ann enjoys going to musicals, but you had better not mention skin diving—it could change the entire course of your life.

HERE WE GO AGAIN— AND WHY

By L. R. CUCCIA & C. PORRETTO



Executors of the Scuba Tourney are (l-r) top row, Jay Albanese, Roland Riviere, Jr., Fred Wust, J. J. Jones and Louis Cuccia; bottom row, Roy Smith, Bob Lengyle and Charles Porretto.

In February of 1958 Jay Albanese, a man with a dream, brought ten men together to breathe life into what is now the biggest and finest scuba diving tournament in the world. The New Orleans-Grand Isle Scuba Divers International.

At first it was quite a big bite to swallow, but after seeing how well they could all pull together, and how smoothly they could work, an air of self confidence and self-assurance seemed to be present.

Doing the work was not the first thing to be considered. They had to plan a fool proof way to divide the work wisely and justly. Then each had to give his financial support as well as his diligent efforts to help make this dream of dreams come true.

During the first few months of work, anticipations were high, and that alone was what offset the endless chain of work that seemed to double itself as soon as one chore was done. The Guide Book was handled and laid out by J. J. Jones, a builder by trade and it goes without saying the fine job that was done. J. J. received compliments from divers from all over the country. The local and national merchants had to be told of the tournament, and as they were very anxious to get national publicity, many utilized this medium of advertisement by donating trophies and prizes. Fred Wust was in charge of the prizes and displays. Due to the number of prizes, his job was quite difficult, as he had to do justice to the beautiful trophies and awards. He was aided by Louis Cuccia, the tournament's secretary-treasurer, who is in charge of the

Tournament's financial business.

Our legal department was handled by A. J. Graffagnini, another director who is responsible for the writing of our by-laws.

The prize committee was handled by the President of the Tournament, Jay Albanese. Being in the lumber business he had to, like most of the Board members, utilize his spare time to the utmost to make the Tournament a success. It seemed his work was unending, however, to quote him "it was the most rewarding thing of my life."

A lot of people asked "Why?" Well, being divers and thinking like divers, we feel only divers can answer "why." The whole group from the start felt there was a need for a tournament that would enable divers from all over the world to compete and compete for something worthwhile. The prizes given at the tournament totaled more than \$21,000.00, including a sports car.

The surprised look on the faces of the divers, as they arrived from all over the country, was indeed a thing to behold. More than one sighed and gasped as they looked on with desire in their eyes at the fifteen, forty inch first place trophies. These are the answers to those questions "why." The anxiety that was present the first night as all the divers with gear of all shapes and sizes, awaited their last minute instructions on rules and safety, and the brotherly feeling that was present and felt, is another answer "why."


The Vice-President of the organization, Roland L. Riviere, Jr., sporting and diving goods dealer, along with

Charles Porretto, the Public Relations Chairman, an insurance salesman, headed the publicity work. These two fellows handled the TV and radio coverage. They were also partially responsible for the fine show put on by the Louisiana Sky Divers, another form of diving that's done from an airplane. These fellows dived from some three thousand feet and waited until they were six hundred feet to pull the rip cord, "that's their reserve."

Bob Lengyle, our correspondence chairman arrived from Europe where he was spreading the word about this world wide tournament. Bob is radio officer with the Merchant Marine.

The morning before the first day of the tournament was a hectic one. Prizes to be unloaded, a weighing and judging platform had to be made, and numerous other things had to be done in what seemed like a rapidly shrinking day.

Another member of the Board of Directors, Roy Smith, a commercial diver, took care of "Windy." Windy was the compressor the tournament had for filling tanks. She stood some twelve feet high and was powered by a diesel engine and was capable of filling fifteen bottles at one time, and in a period of less than one minute.

Yes, they worked, and "work" they will again, to put on the tournament this coming August 15-16-17, and word has it that divers from Maine to Mexico will attend to compete for the prizes and coveted trophies. It seems that their diving buddies told them of the clear water and abundance of fish, and the temptation is too great. (More to come next month). 

ARCHAEOLOGICAL DISCOVERY AT DANA POINT

By **DON MORRISON**

Ray Caspari and his teenage son, Tom, recently made an interesting underwater discovery at Dana Point, California. Tom was returning to the beach some forty yards behind his dad when he discovered an ancient matate bowl. It lay in water ten feet deep to the south of the new pier. The powerfully built lad dived, picked up the twenty-four pound volcanic scoria piece and swam it into the beach through a mild current. In the process of doing this difficult physical task he had to rest by diving under periodically.

The director of Bower's Santa Ana Museum, Mrs. Coulter, stated that the

bowl, used by the Juanero Indians for mixing and grinding, is at least three hundred years old. Many Indian camps were located near the Dana Point region in the 1600's. The relic measures 10 inches in diameter, 8½ inches high and has an inside depth of 5½ inches. Only thirty have been found in California's history and this is the first recovered from the sea. Ray and Tom live in Garden Grove, California.

The bowl has value as a collector's item, the highest bid thus far has been three hundred dollars. Ray and Tom are not letting it go, because it was their first great underwater adventure.



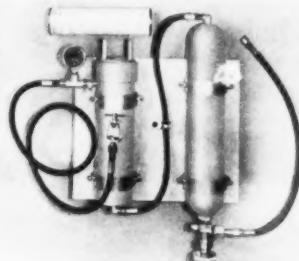
CHICAGO, ILLINOIS

Divers Gene Fox and Al Algermonti of the Scubateers Club assist in the recovery of this 1951 vintage automobile from Lamont Quarry, Illinois. A number of stolen cars were recovered from the quarry in a dual purpose dive. Police had asked for assistance in searching the quarry and Dan Wagner, captain of the Illinois Recovery Team, wanted to test prospective team divers for positions in the recovery group. Photo by Newt Grefenson. (Right photo) The Long Beach Neptunes' entry in the annual Christmas Festival of Lights in Long Beach, Calif., delighted thousands of spectators as their fantastic forty-foot, lighted, smoke breathing sea monster paddled through the quiet canals. The monster's approach was heralded by the bellows of Neptune conch blowers and the singing of a dozen swimmers. Photo by Omer Nielson.

LONG BEACH, CALIF.



HEAVY DUTY AIR PURIFIER



for use with all high pressure
air compressors to 15 C.F.M.

COMPLETE, as illustrated—\$58.00

Portable Air Compressors \$595 to \$950
Ingersoll-Rand & Worthington

NATIONAL EQUIPMENT CO.
BRADDOCK, PA.

INTERNATIONAL TREASURE HUNT

By JUDY JOYE

Photos by John Cochran

Golden Treasure keys will be hidden among the coral awaiting discovery. Every nook and cranny will be a possible hiding place for the valuable keys.



Crystal clear waters of old San Juan, location of the treasure hunt, will permit you to see the keys easily.



Treasure holds a fascination for today's population as it did for civilizations long past. Collections of deep sea shells indicate that prehistoric man once dived for his food, and divers were first used in naval warfare as early as 460 B.C. The ancient Spanish armadas carried trained divers aboard who dived with buckets over their heads, salvaging "treasure ships" sunk by the enemy or hostile seas. (This explains why so many wrecks were discovered to be barren of glittering treasures.)

But today, with the "First International Treasure Hunt for Skin Divers," a new concept in "treasure diving" has been created; that of man-made treasure. Caribe Aqua Association, of Route 17, Rochelle Park, N. J., the originators of the First International Treasure Hunt for Skin Divers, realizing the magnetic appeal treasure hunting holds in the world of diving, conceived a way of how to overcome the scarcity of authentic treasure ships, putting treasure hunting at the fingertips of all those who love the adventure of ocean and skin diving.

After consulting with its diving members, Caribe Aqua Association chose San Juan, Puerto Rico, as the site of its First International Treasure Hunt, and selected the dates of May 14 through 20, 1960. Famous for its crystal-clear tropic waters, and being the so-called capital of the old treasure

fleet route, Puerto Rico is obviously an underwater haven for diving and treasure hunting.

Together with the co-sponsorship of U. S. Divers Corporation, Caribe Aqua Association gathered thousands of dollars worth of modern day treasures for use in the treasure hunt. (Gathering this type of treasure is far easier, and of course more guaranteed than locating a galleon with treasure already aboard.) After locating enough valuable "treasures," the type of items that would interest avid skin divers, Caribe Aqua set themselves to the task of originating a fair and interesting method of distributing these many treasure items, among the participants of the treasure hunt. And so a new and novel type of treasure hunt was created, with Davy Jones' locker being crammed to overflowing with new and luxurious 20th Century products.

The actual treasure hunt works thusly: At the bottom of the bay, hidden in the polychrome coral and tropic underwater gardens of old San Juan, will be more than 50 golden keys. The exact location of each key is known only to the Treasure Master. On the second day, after all have recuperated from the "welcome to Puerto Rico" party, the Treasure Master will distribute charts of the treasure area to familiarize all participants with the submarine topography of the bay. At

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ice breakers—Judy and Wayne LaPorte welcomed in the New Year in a most unusual way—under eight inches of ice. The couple splashed about in and under the 33-degree waters of Lake Sunapee, Newbury, N. H., as spectators shivered in the near zero temperatures. After surfacing Judy's mask became coated with a thin layer of ice.



the signal, each group of divers will don his or her equipment and enter the cove, commencing the search for gold keys, which will be hidden in the exact locale history indicates the treasure armadas once anchored and sailed. Each key recovered opens a different "treasure chest" which will be lined up on the beach, and it is up to the diver to try the key in each of the locks to find which it opens, revealing what, by law of the sea, is now his property. The Treasure Master will know where he placed each of the golden keys, and it will be interesting to see what "other treasures" this eager group of diving enthusiasts uncovers.

In addition to the treasure hunt, Caribe Aqua Association has planned guided spearfishing trips along the majestic reefs of old San Juan which abound with all types of reef and game fish. And of course no "underwater vacation" in Puerto Rico would be complete without sightseeing trips along the tropical coral reefs with its millions of multi-colored fish darting about, and visits to the many ancient "treasure ships" which abound in the waters around this island.

For the non-diving members of the tour, free diving lessons will be provided if desired, and there will be a smaller treasure hunt (on land) organized for all attending waders and non-snorkelers. In this instance

the object will be to find the golden key which will be placed inside a small treasure chest filled with water, hiding . . . perhaps up a tree . . . or perhaps inside a coconut . . . only Caribe Aqua knows!

But the exploration and exploitation of Davy Jones' bountiful locker is just a minute portion of this fan-

ABOUT THE ORGANIZATION

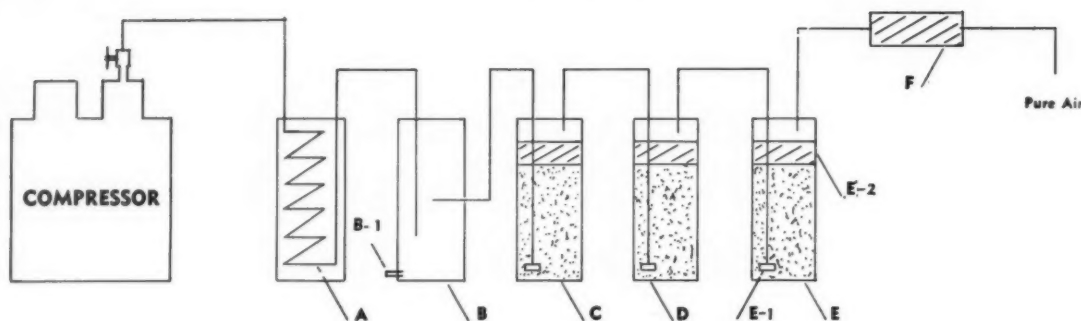
CARIBE AQUA ASSOCIATION is a new organization; created by skin divers, for the advancement of skin diving. Its express purpose is to provide additional activities for divers—provide them safety and in a group where others can share the enjoyment. Its dedication is to the furtherance of skin diving as a healthful, instructive, and enjoyable sport, and to the principles that diving TOGETHER is the best and safest way to have fun.

This International Treasure Hunt is one of a series of newly created projects. Other activities include active participation in the OUTDOOR EXHIBITION at the New York Coliseum; a Selected Film Showing for Skin Divers at New York's Manhattan Center, March 22—to be MC'd by Hugh Downs; plus other cross-country projects soon to be released.

tastic first in underwater travel. From the time this group of 300 International Treasure Hunters leave New York on Trans Caribbean's luxurious DC6B's, and until they return one week later, the parties, fun, and adventure are guaranteed never to cease. The plane trip from New York, usually a tedious five or six hours will be turned into a rip-roaring introduction to the islands via the magic of Puerto Rican Rum, creating a true Caribbean Fiesta and very "happy" people! And it is for sure that this atmosphere of carefree happiness, so prevalent in the islands, will continue for the entire trip. From the time the plane lands in Puerto Rico, and until everyone checks into the famous and luxurious Intercontinental Hotel in San Juan, the beach parties, barbecues, cocktails, dances, and . . . diving . . . are guaranteed to turn this trip into a bountiful accumulation of pleasure and excitement.

And so, all readers take note. Those persons NOT desiring adventure, gaiety, romance, and treasure . . . bolt your door against the temptation of joining this international sojourn of adventure-seeking skin divers. Hide your equipment, and leave the task of serious treasure hunting to those more adventuresome divers, and Spanish sailors with buckets over their heads!

FILTER SYSTEM FOR OIL LUBRICATED COMPRESSORS



The above filter system depicts a safe bank of filters that should give thousands of cubic feet of pure, compressed air with no fear of monoxides, water vapor, or oil globules.

If you use 12 cubic foot bottles for the entire bank of filters, the minimum size that should be used with a small one or two C.F.M.-3000 P.S.I. compressor, you should be able to fill three hundred 70-cubic-foot bottles and still have perfectly pure compressed breathing air. You could, no doubt, fill more but this gives you a margin of safety before having to replace the chemicals.

If you are using a large compressor with an output of 15 C.F.M.-2000 P.S.I., you should use 70-cubic-foot filter bottles and with this system should be able to fill fifteen hundred 70-cubic-foot lung bottles before changing the filter chemicals.

First, in looking over the diagram and should you have in mind building your own filter system, REMEMBER, that this entire system, tubing, tanks, and fittings, must be able to stand 3,000 pounds pressure, although your normal operating pressure will be approximately 2,000 pounds.

Following the sketch "A" through "F", the compressed air leaves the compressor, enters "A" or a spiral tubing condenser immersed in cool water. This will condense your water vapor from the compressor and will make your water trap more effective and will extend the life of the chemicals in the other chambers.

Chamber "B" is your water trap that should have the following specifications: The inlet should be 8 inches from the bottom to allow a fairly large volume of water to accumulate before draining through outlet B-1.

The outlet side of the water trap leading to chamber "C" should draw its air from the very center of chamber "B". The reason being that a surge of air on the inlet side, oftentimes, will blow the water up the walls and out into the inlet of chamber "C", if the inlet is on the surface of the vessel.

Chamber "C" is filled with silica-gel that should absorb all water vapor. The air is then passed into chamber "D" with an 8-14 mesh activated charcoal that removes the monoxides and odors then into chamber "E" that is filled with a 4-8 mesh activated alumina that will remove any oil or water vapors that might have passed the other filters. E-1, the same as the intakes on "C" and "D" is a small, fine mesh screen to disburse the air jetting from the tubing which prevents channeling and inhibits the turbulence.

E-2, the same as in "C" and "D" chambers constitutes a packing of Kotex or a similar material on top of the chemical to prevent any of the filtering chemicals from being carried from one chamber to another.

Chamber "F", or the last filter before entering your lung bottle is 3" by 12" in size and is packed with Kotex, also, to stop any chemical dust or particles that might be carried from the "C", "D", and "E" chambers. Chamber "A", or the condenser, can be eliminated on the small one or two C.F.M. compressor in that the compressor pumps the air slow enough to be cool upon entering the water trap. Chemicals for your filter system can be purchased at your nearest chemical supply house and some drug stores.

This entire filter system may appear to be rather complex, but in the long run will assure you of hours of pure air with no fear of lung damage.

CHECK AND RE-CHECK YOUR SCUBA AIR SUPPLY

An Oregon state safety inspector noted that an air compressor was being operated at a sheriff's office for refilling scuba tanks. The compressor's air intake was located in a basement parking garage. When questioned about this the officers showed a "certification of clean air" which they had received. In any case, the Oregon State Environmental Research Laboratory staff was asked to check this operation. On the basis of the "certification" there was not too much concern by those operating the compressor. However, it was found that the test was obtained by sending a compressed air sample to another sheriff's office where it was, in turn, sent to a diving supply company who tested the sample by releasing the air through a piece of white cloth. If no spot showed, the air was certified as clean! Among other recommendations for operation of the compressor, the ERL staff asked that the air intake be moved outside and away from possible garage contami-

nants, such as carbon monoxide.

In a check of local practices, it was found that scuba divers use any convenient source of air. Some use their own compressors which are often overloaded and overheated, thus resulting own compressors which are often overfills" at marinas. Most of the marinas use filtering systems but in general it was found that filter replacement schedules and practices were poor.

One marina showed a certification from a commercial testing lab certifying that there was less than 0.001% (10 ppm) carbon monoxide in the compressed air. A check of the analytical method used by the lab showed that the method could not possibly show less than 0.01% (100 ppm) because of lack of sensitivity. (CO content of scuba air should not exceed 10 ppm.)

Divers are extremely active physically and exposure to potential contaminants such as carbon monoxide, carbon dioxide, oil vapors, and mixed exhaust gases can be extremely haz-

Breathing air for scuba purposes is defined as air which meets the following specifications:

Minimum Oxygen—Atmospheric Air

Maximum Carbon Monoxide—10 parts per million

Maximum Carbon Dioxide—300 parts per million

Absence of odors and vapors

Freedom from Oil and Impurities by passing five liters of air through a Whatman #40 Filter.

ardous. Little thought is given by sportsmen to the purity of air. Also suppliers are, in most cases, not cognizant of the precautions needed. One often sees advertising stating that "certified air" is supplied, but the ERL can find no official certification regulations. Because of the extent of this situation, the ERL is attempting to finance a comprehensive study to determine standardized air certification, and compressor-filtering procedures.

BOOK REVIEW

"Oddities From the Sea" A portion of Chapter 10 of THE SALT WATER AQUARIUM IN THE HOME

By Robert P. L. Straughan

THE SARGASSUM FISH (Histrio)

Here is the ultimate in camouflage, for this interesting creature looks almost exactly like a piece of seaweed. It is one of the most interesting fishes in the sea and fortunately is not rare so that it can usually be obtained by an enthusiastic aquarist.

It does not grow very large and can usually be had in sizes from a half inch to three inches. The smaller sizes are recommended as the fish grows very fast and the youngest specimens seem to be able to adapt themselves to life in the aquarium much better. This is one of those bizarre fishes that should be given an aquarium to itself, or kept in a two- or three-gallon fish bowl, provided with aeration.

The Sargassum fish will eat anything that moves, including other Sargassum fish, just so long as the other fish is slightly smaller than itself, so it can be swallowed. Consequently, it can readily be seen why it should be confined to separate quarters. If another aquarium is not available, the swallowing monster may be kept in with your prized beauties by isolating him to one corner of the aquarium with a sheet of glass. Another satisfactory method is to keep him confined in a plastic live well or breeding tank which is perforated so that the water will circulate through it. These are often used for live-bearing, fresh-water fish and are available at most pet shops.

Sargassum fish may also be kept in an aquarium with fish that are much longer than themselves so that they can't possibly swallow their associates. Large Sea Horses are especially suited for a combination display for neither will bother the other. However, do not keep Sargassums with the Dwarf Horses as they will soon grow large enough to eat the small horses.

The above is only a small portion of this interesting chapter about the "Oddities From the Sea" explaining and describing the capture and care of the various sea creatures that may be maintained in the home. A practical guide for the marine hobbyist—more than 100 illustrations. Book Number 47 in the Underwater Bookshelf, inside back cover. ➤

Q & A N S W E R

COLUMN by TUSSEY

Direct all questions to this column in care of Q&A Column, Skin Diver Magazine, Lynwood, Calif.

What is the use of nose clips in diving and why are some against it?

Although opinions differ as to its desirability, many divers find a nose clip helpful in equalizing pressure, and in decreasing the annoyance of small amounts of water in the swim mask. It is particularly valuable upon losing or flooding the mask. A properly adjusted nose clip should be comfortable and will not interfere with equalizing pressure in the mask or with expelling water.

I have come to the conclusion that yellow is a dangerous color to be wearing in the presence of visual eating fish. Is this a sound conclusion?

Yes, to a certain extent it is very true, sharks and other carnivorous fish are definitely attracted by bright colored material. On the other hand both sharks and barracuda have been known to follow divers wearing colored objects for hours but have not attacked. I do not overlook the fact that there were several deaths last year due to sharks, but compared to the amount of diver hours in the water the accident rate is still at a minimum.

I believe not fifty percent of the persons who use diving equipment today, know the whereabouts of the nearest recompression chamber. I wonder if you could supply these addresses?

Unfortunately the space here isn't enough to list all the existing recompression chambers through out the U.S., however; I will list the source of this information so all interested clubs can inquire for their area. U.S.N. Officer-in-Charge, Experimental Diving Unit, U.S. Naval Gun Factory, Washington, D.C.

Occasionally I have blood in my face mask upon surfacing, can you tell me what causes this condition?

This is undoubtedly a sinus squeeze, usually caused from not equalizing the sinusal passages. There will also be increasing pain behind the eyes during descent. Diving should be avoided until cold or sinus condition subsides.

I am interested in the underwater endurance records, are they necessarily an asset to the promotion of skin diving?

There are several opinions concerning endurance attempts, here is a more popular one. Underwater endurance attempts may appear to be foolish, to some, however; they offer submarine medical men a chance to study the physiological aspects and are treated with interest in preparing persons for space travel. The ability to adapt our bodies to survive in a different atmosphere is indeed a scientific accomplishment. ➤



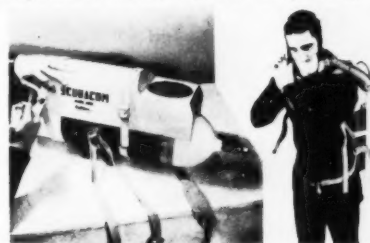
13' BALBOA IS AN all new pleasure-utility entry in Glasspar's 1960 fleet that combines the seaworthiness of the larger Glasspar boats with the convenience of a smaller craft. Available with or without an attractive fiber glass foredeck, the 13' Balboa features double-bottom and under seat flotation, mahogany seats, oar lock sockets, stainless steel towing eye and a neoprene gunwale guard that wraps around Glasspar designed transom lifting handles. It is constructed of light, strong, maintenance-free fiber glass like all Glasspar models.



DIVING IN YOUR OWN HOME—Whether you are a rank amateur or an expert or just plain curious, there are valuable lessons to be learned from this recording. Skin Diving Records has come up with not only a first, but with a must for anyone interested in diving. The 33 1/3 long playing album takes you through all the various steps of diver training in a clear, concise manner. The accompanying booklet provides complete information, diagrams, and description of skin diving equipment and techniques. The live recordings of a scuba diver underwater, makes you want to reach for your mask and fins. "Skin Diving"—\$5.98 (California residents add 4% sales tax). Skin Diving Records, Dept. S-1, Box 27847, Los Angeles 27, Calif.



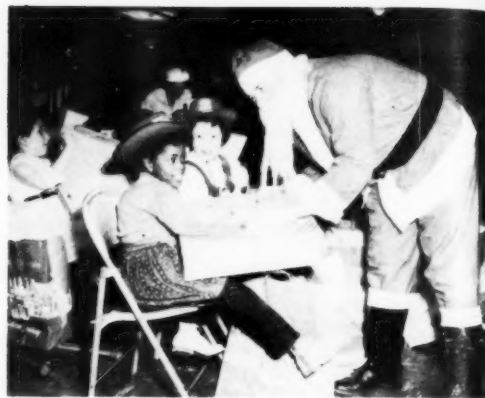
A SCOOP! AN AIR mattress with a built-in pump for every outdoor enthusiast! Hampshire Manufacturing Company is now offering the 1960 new BUILT-IN PUMP Air Mattress, Model #500, the result of a unique, revolutionary development that does away with the time-consuming and bothersome effort required by all other air mattresses. The built-in pump, a foot-sized, reinforced area in one corner of the mattress, is absolutely guaranteed to work. Fifty quick, easy foot pumps fully inflate the 75"x30" mattress in thirty seconds.



WITH THE USE of the "Scubocom," a revolutionary, new transistorized audio system developed by Electro-Voice, Inc., Buchanan, Mich., manufacturer of hi-fi components, electronic depth finders and other electro-acoustical equipment, scuba divers now may talk to each other underwater. The device consists of an underwater loudspeaker, face mask and microphone, all of new design, and batteries and amplifier. Oral communication between one or more divers wearing the "Scubocom" is possible up to a range of 150 feet and down to a depth of 100 feet.

SEA ROVERS TAKE ST. NICK UNDERWATER

By RUTH WIERNIK



ON DECEMBER 19TH the Boston Sea Rovers launched yet another civic enterprise. Under the enthusiastic leadership of President Frank Scalli the club was host to thirty-eight excited youngsters—the entire first four grades from the Industrial School for Crippled Children of St. Botolphs Street, Boston. The party was held at the Boston YMCA that put a hall, the pool, and their co-operation at our disposal. Those children who could not be brought by their parents were collected by Sea Rovers. Wheelchairs were brought from the school to the 'Y' for those who needed them.

The first part of the program took place at the pool, where divers put on a display which involved a splashy, mischievous Bozo the Clown, and human seals who retrieved coins the children threw in the water. Perhaps the most inspiring aspect for our young guests, however, was the presence of Frank Sanger among the divers. Frank, whose underwater ability is well known to most New England divers, happens to possess only one

arm and one leg. His participation was a most vivid proof that physical handicaps need be no bar to a sport which none of these children had even remotely considered within their powers.

After the display everyone moved over to Hastings Hall, and it was amazing how competently these youngsters got around on their crutches and in their wheelchairs. After the hilarity at the pool there was—for a while—a striking lack of noise in the gaily decorated hall, as the kids busied themselves in disposing of the heaped-up party fare.

No Christmas Party is complete without a magician, but on this occasion the magic was rather special. Laurence B. White, Jr. from the Boston Museum of Science, gave us a 45 minute display of Science Magic. He demonstrated Newton's Law of Motion by knocking a tray out from under eggs balanced on sticks, with the advice that when the experiment was repeated at home, rubber balls might be more suitable. He showed how CO₂ from a fire extinguisher can be

"poured" into a bowl to act like invisible water, and demonstrated the phenomenon of complementary colors by means of an American Flag in orange, red and black which left us with an after-image in the true colors, after we had stared at it for 15 seconds. It is a great tribute to Laurence White that he held his audience, whose ages ranged from 5 to 12 years, spellbound for the entire display.

Finally, Santa Claus arrived with a train of four large trucks piled high with gaily wrapped parcels. Each parcel bore a name, and Santa had to call each name repeatedly. Some of the packages were almost as large as their recipients, and contained items like cowboys sets and magnificent dolls. Many of the children had never come closer to such treasures than the wrong side of a store window, and the shining eyes and chaos of torn wrappings may be imagined!

I'm not sure who enjoyed the party more—the Sea Rovers or the children. In any case, I have a hunch that sometime in November 1960 someone at a club meeting will say: "how about a Christmas Party for those kids at the Industrial School?"

Our thanks are due to the many people who contributed to the success of the afternoon—by giving their services, donating part of the food, or buying turkey raffle tickets to finance the presents.

LUNAR TIDE CYCLE

Question: Why are there thirteen and not twelve cycles of tides in the year? P. J. H., Cambridge, Md.

Answer: It has been known for thousands of years that the moon is the principal body which controls the earth's tides by exerting an attractive force. A lunar month, that is the period in which the moon completes one full cycle, is 29 days, 12 hours, 44 minutes and 2.8 seconds. If 365 days are divided by that time, the resulting answer is 12.36. The confusion arises from the fact that calendar months are in reality man-made extensions of the lunar month, so that only twelve months rather than thirteen make one terrestrial year. From "Sea Secrets."



Sea Rover members clad in full diving dress perform in and around the pool for the youngsters. The audience threw coins to the retrieving rubber suited Santas. Photos by Ben Alexander.

SPANISH UNDERWATER SCENERY PAINTER

By ANTONI RIBERA



VICENTE OLIVER, aged sixty, is a bold Spanish painter who works in the "Silent World" with his colors, zinc plates and the rest of the equipment he uses to catch fugitive glimpses of the underwater scenery.

Some time ago, Oliver became very interested in the underwater world,

after seeing it through the glass-bottomed boxes the fishermen use to see the seabed. Afterwards, he saw some scuba divers going down with their lungs. Oliver, then, became enthusiastic about diving. He purchased a lung, a foam rubber suit, a pair of fins, and he began diving in the warm, shallow waters of the "calas" or inlets of the Catalan Costa Brava. He took along with him, in these dives, some zinc plates with grease pencils, to sketch roughly what he saw. Later on, on the beach, with his rubber suit still on, he made an oil sketch on canvas, based upon the zinc plates and the recollection of things seen. The final stages came in his study, where he made the final painting on canvas.

Before that, Oliver was a conventional oil painter, dealing mostly with landscape, flowers and still nature. He made several one-man shows in his country, but he had general attention with his first underwater show, held at the Galerías Macarrón in Madrid. Paintings by him were bought by the Marchioness of Villaverde, Franco's daughter, the Duchess of Alba and other Spanish aristocrats. He held a show in February at Mary V. Arts Gallery Co., in Tampa, Florida, dur-

ing the big fair. Later on, he will hold an exhibition of his work in Monaco.

After the unfortunate Francisco Gusi del Rey, the Spanish underwater painter who was drowned off Palamós in May 1958, Vicente Oliver comes to show us the myriad beauties of the underwater world, which for him is alive, peopled with fish, coral, lobsters and all kinds of creatures. His colors are strong and direct. This "Old Man of the Sea" paints like a young man . . . and dives, too.

HOW TO REMOVE MEAT FROM SHELL

Question: In order to help our fishermen obtain a dual income for both conch flesh and shell, we must discover a way to extract the living flesh from the shell without mutilating the shell. Is there any way this can be accomplished? M. D. Boruch, New York, New York.

Answer: There are two possibilities. One is to put shell and all in a deep freeze. When thawed out, the animal can be pulled almost entirely out of the shell, the meat refrozen or iced and the shell then cleaned in the conventional fashion. The second possibility is to put the conch into sea water from which the dissolved oxygen has been removed. This can be done by boiling, et cetera. The animal cannot then obtain enough oxygen for respiration and comes as far as possible out of the shell in search of it. Carbonated water has the same effect. From "Sea Secrets."



Vicente Oliver

DIVERS' FASHIONS



"TICKING TIME"

"TICKING TIME"—Catalina features the YANKEE beachwear for the casual diving family. Available in gold, black, olive, and red.

"MUU MUU"—Just the thing for mama and the girls. Makes it look like they just got off the boat from Tahiti. Terrific for that Beachcombers Ball or the Club Dance. From Cole of California. Available in Lagoon Blue, Coral, Reef, Sun Gold, Kelp Brown.

"FROG MAN"—For the underwater sportsman, Jantzen offers a perfect item for the warm water diver that wants to prevent sunburn and rock cuts. Bongo pants made of a cotton knit with a vertical stripe. Pants have a wide elastic belt, and a zipper at the bottom of the legs.

"SEA TRADER"—Hawaiian type surfers for leisure wear, of cotton gabardine, the "Sea Trader" is sized every inch for a perfect fit. Trimmed uptown with real braid. Available in Marine Blue, Black or White from Catalina, Inc.

"SKI MASTER"—For the aficionados of water sports, a hooded jacket of nylon fleece with long sleeves and zipper front. Would make a great club outfit or maybe just for the competition team your club is entering??? From Catalina in Red only.

(For complete information where to obtain above fashions write or call SDM.)



"MUU MUU"



"FROG MAN"



"SKI MASTER"



"SEA TRADER"

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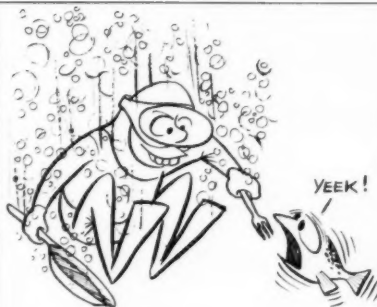
IT'S NOT THE GROUP DIVERS, WITH ALL THEIR EQUIPMENT AND MASS ENTHUSIASM, WHO...



WORRY ME SINCE THEIR COLLECTIVE LACK OF IMAGINATION IS A FORM OF PROTECTION FOR US.



NO, WHAT TERRIFIES ME IS THE HEARTY, HAPPY AND MILITANT **INDIVIDUAL** DIVER WHOSE ORIGINALITY AND SHEER UNPREDICTABILITY MAKE HIM A REAL THREAT...



SEE WHAT I MEAN?



MEDICINE UNDER PRESSURE

By Walter R. Kirker, M.D.

THERE HAS BEEN a great deal of work carried out by many skilled research men concerning the effect of vitamins, electrolytes, corn oil, gelatin, glycine, alcohol and caffeine upon the athlete. The general consensus of opinions is that the optimal diet for an athlete is not different in most respects from that which is recommended for the normal person.

There have been certain rules, however, that are of importance to good athletic performance immediately preceding and during competition, and these rules are generally as follows:

The ingestion of boullion at least three hours prior to a competitive event will suffice for the salt lost in the event in perspiration. Thirst will follow, but it will be noticed soon enough to eliminate the fluid ingested before the competition starts.

For endurance sports, as diving is, carbohydrate is believed to be a better food for fuel than is fat or protein. The carbohydrate reserves may be increased by two methods: (1) Exercise should be tapered off 48 hours before the event. (2) That last meal before the event should be high in carbohydrate such as cereal (oatmeal), toast with jam or honey, etc.

The problem of the need for urinary or bowel excretion during a diving event can be serious or even disabling. Proteins are excreted as fixed acids in the urine and therefore the protein intake is best avoided at the meal prior to the event. This throws out that old theory of a good steak meal is best before an athletic adventure. Likewise, bulky foods (lettuce, seed containing vegetables, etc.) are best avoided 48 hours prior to the dive. Highly spiced foods should always be limited in the diet, and especially at the meal just before you make a dive.

There is excellent evidence to support the theory that alcohol and caffeine should not be ingested prior to an event. Even small quantities of alcohol will decrease the coordination of the diver, and, if you take a drink for warmth, your reasoning is all wrong since the alcohol will dilate the blood vessels of the skin and actually allow more and more of that precious

heat to leave the body. Coffee and tea, while stimulants, may have a depressing effect three or four hours later and thus impair performance, if consumed at the meal preceding exercise.

Some sugar feeding during long and exhausting exposure does improve performance. Feeding glucose pills, pieces of sugar or honey, however, tends to draw fluid for their digestion and absorption into the gastrointestinal tract, and further dehydrate the body. An excellent food for this purpose is to use strongly sweetened weak tea with lemon, which does not cause this difficulty.

Last but not least are the gas producing foods, which are able to produce great discomfort while diving. Carbonated beverages, beans, cabbage, sauerkraut, etc., all have that ability to cause gas as a byproduct to their digestion. Pressure exerted while diving effects this gas in similar respect and can produce abdominal pain that is quite severe. Avoid these foods at least 24 hours prior to the dive.

Editor's note: Although Dr. Kirker cannot answer letters individually, your medical problems related to diving will be discussed in future columns. Questions should be addressed to Dr. Kirker in care of "Skin Diver Magazine."

MY DAYS ABOARD THE CALYPSO

(Continued from Page 15)

eral bolts sheared off the heads of the winch and the operation was stopped. They brought the try-ka aboard and we left for San Juan to repair the winch. While the winch was being repaired we planned to go to Saint Thomas for the first test of the diving saucer.

Arrived at San Juan. Navy came aboard and arrangements were made to repair the winch. The ship is to sail for St. Thomas, Wednesday at 2400. All stores are aboard and the Commandant and others have arrived from French Council after enjoying a cocktail party given in their honor. My family and Serge went aboard to visit the ship and see the saucer, engine room, bridge, etc. After saying "adios" to Carmen and family, Serge brings me back to the Calypso and we are told by Comdt. Cousteau that there is a problem. The air conditioner in the photo lab is out of order. I told him I have a friend who can fix it. It is 11:15 p.m. and we are to sail at 1:00 a.m. At 12:45 Pinero, the refrigeration man, has repaired the air condition unit and we are ready to get under way without any delay.

I located a hammock and two blankets and made my bed in the ship's port life boat, as there was no other place available. It turned out to be the best as I didn't suffer from the heat. We arrived in St. Thomas at 0900 and anchored. Comdt. Cousteau sent Falco and Carleton Ray on a survey trip to check for a location to try the saucer. After lunch they returned and informed us that there was a little cove ahead. We formed two groups to go on an expedition. Falco and Carleton Ray in one boat, Tom Abercrombie, the ship's messboy, the ship's doctor, two biologists and myself in the other. I am navigator of our boat. We arrived after a short ride and put three ashore. Then five of us went to another spot and helped Falco gather specimens. Tom took pictures, while Carleton Ray



Alberto Falco, the exclusive pilot of the saucer, and world famous diver/member of the Cousteau research team.



Seaman lowering the 14 pound anchor on nylon line to depth of 28,800 feet. After the anchor was set they lowered a camera down the line.

studied different plants, and the mess-boy loaded up the boat with nice fish. We secured at 1600 and returned to pick up the others. We started back to the Calypso and met it on the way. After we boarded, we were told we were to sail to the bay of Aguadilla, Puerto Rico, to find clearer and calmer water to test the saucer.

7:00 a.m.—We passed Aguadilla Bay and anchored in Jiguera Bay just south of Aguadilla about 2000-4000 ft. off shore. We removed the hatch

covers and the final touches were given to the saucer by Falco, Mollard and Didi. Cousteau checked the jumbo crane to see that all was ready to lift the saucer out of the hold. With the ease of a master at the piano, Cousteau lifted the saucer out and set it in the pad ready for the first dive, in waters outside of France, to my knowledge. Falco and Mollard entered and closed the hatch. Cousteau lowered them into the water. Henry and I tied two and four pound weights on the starboard side until the proper trim was achieved. They were lowered slowly until they reached 45'. They stayed a short time trying the camera and direction nozzles, ballast pumps, etc. They were then taken back to the surface and brought aboard.

When the hatch was opened we felt a rush of air. When checked there a leak was found in the oxygen bottles which was repaired and replaced. The camera wasn't working correctly.

10:00 a.m. — After lowering the saucer we changed the crane cable for a 2000 lb. test nylon line 1000 feet long. They slowly went down checking the steering nozzles, mercury tanks for tilt and the ballast pump for trim, all was well and they kept lowering and maneuver around. Henry and Tom check the saucer, Davso and Tom take pictures. After one hour they surfaced. What a sight the steering nozzles made pointing up and spraying. We attached the lifting cable and brought them aboard. After lunch Dr. Edgerton checked the still camera prior to installation.

We moved the ship to deeper water and at 4:00 p.m. anchored. The saucer was lowered and three pair of divers were selected to watch it and report back to the ship. Tom and Davso took pictures; Didi and Carleton Ray checked the saucer, Jacques Ertaud and myself took movies. The saucer was lowered. We were in two small boats, Tom and Davso dived and returned. Jacques Ertaud and I went down to take pictures. When we reached 120 ft. Jacques showed me his camera case full of water. We had to return to the boat. Charleton Ray and Didi dived and returned. After an hour and half the saucer was brought close to the ship and lifted aboard. The hatch was opened and Falco and Mollard got out, all smiles and very happy with the way the saucer had performed. The feeling of victory was everywhere. The saucer was lowered into the hold. The ship got under way and we were treated to a very special supper and Cousteau had a case of champagne opened for the occasion.

Sunday morning—we arrived back at San Juan and the end of an exciting trip for me. ➤


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MAS SADAHIRO of the California Nisei Kelp Tangles and one of the most unusual catches of 1959 for the entire West Coast... a 68 pound turtle captured near the Los Angeles-Ventura County line. Turtles are rare in the area, only one or two small ones are seen each year. Photo by Carl Schaefer.



Photo—Clarke-Wilson Expeditions.



Cameos in Coral

By **RICHARD LURIE**
from "Anglers Digest"

GREEN ISLAND, situated off Cairns, Australia, is a typical Barrier Reef Island, which are so often little more than cays, while a few miles beyond lies incredible Michaelmas Cay, renowned for its bird life. Here, on this tiny sand bank, lightly covered with spiny grass, nest thousands upon thousands of sea birds . . . terns in the main, whose screams are a never ending burst of sound, while the sands are so covered with fledglings and eggs that it is nearly impossible to avoid stepping on them.

Green Island can be walked around in a little over half an hour, while winding tracks through the thick vegetation and tall palm trees make short, delightful walks.

The reef walker will not be very impressed over the shallow coral, for constant exposure to air has killed it so, only when on the very outside, can the best formations be viewed, and again only in special places.

Here will be found corals that look

like giant mushrooms, or huge human brains, while others simulate deer antlers, or fingers. Some hang in folds like draperies, others grow in tiers. Then, as the onlooker moves further afield, soft fungus-like growths lie puckered on the bottom. But among all this grotesque yet beautiful scenery is found a still more entertaining sight—that of color—for these riotous gardens, that contain frozen flowers, also hold colors beyond one's wildest dreams.

Not the harsh hues of the shop tinted, but subtle tints that show in contrast; soft mauves and green, dull yellows and tan, touch of red and brilliant blue. All perfectly blended by a turquoise sea.

Flourishing in these benign waters the fish life flaunts colorful raiment. Dressed in brilliant iridescent green and blue, the parrot fish's powerful beak crunches the coral, while close by a school of two-inch twinkling blue damsel fish twirl about one another.

In deeper water lies hovering over the bottom a blue spotted coral cod, its eyes warily watching, while a part-open mouth shows a pearly gleam from its front teeth.

The voracious predators, the barracuda and shark, hold majesty with powerfully sharp teeth, swift reflexes, speed and strength, while others lie unmolested because of their poisonous spines, such as the dreaded stone fish. Yet death and beauty are combined in the red fire fish (the bird of the sea) with its magnificent red coloring and beautiful pectoral wings, disguising poison spines.

Plankton, the basic food of the sea, is the chief food for some of the largest life within the sea—blue whales and manta Rays, whose bulk runs into many tons. While the huge bivalves include the giant clam, weighing over quarter of a ton; truly a monarch among shells.

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calm and clear, the snorkling explorer may encounter an unusual sight, that of feeding coral polyps. For these are creatures of the night, and what we all know as coral, is really the little homes of the dwellers, the outer layers only being occupied.

At first sight it seems that the coral structure has thousands of tiny petal-like hairs, combining to form innumerable wee flowers, but these are really minute stinging tentacles, that affect the polyps prey.

One day a friend and I spent an amusing several minutes writing our names on a feeding coral mass. All we did was to outline the words on the coral, using our fingers, then, where we had touched, the startled polyps withdrew into their holes and, a second or so after the word-outline had been made, the word appeared in a dark line that vanished when the tiny creatures recovered from their fright and returned to feed.

Sea urchins are often encountered: in general the black or deep purple, short, spiny ones. Usually about the size of soccer ball, but composed of hundreds of sharp brittle spines, each with tiny backward sloping barbs that make a spine exceptionally hard to remove from the skin.

A reef walker may notice bright little flowers, with heads about the size of a penny, growing from the brain coral. These are in purple, green, and reds to mention but a few colors. When the finder bends to pick one . . . poof, they are gone! What are really being viewed are the heads of "fan worms" regrettably the only attractive part, for the rest is an ugly pallid white bulbous-bodied worm!

Thousands of queer, almost unreal, sights may be viewed on any coral reef, but what usually fascinates the onlooker is the sight of the so called "decoy fish." This two- or three-inch orange-striped fish lives among the stinging tentacles of its plant-like but animal associate; yet other small fish are killed by these same tentacles.

A human is not affected, but will feel a tingling sensation like "pins and needles."

Many and varied are the sights to be seen on a coral reef. There's the unwholesome-looking "beche de mer"—that can actually disgorge its intestines and regrow more. In a dried state, this almost black slug-like creature is regarded as a delicacy in China where it is made into soup. Then there's the nudebranch, one of the most beautiful sights of the sea; an almost jelly-like multi-colored sea slug, that moves its six-inch body by slow, graceful undulations.

DIVERS' CALENDAR

March 2	Competitive Spearfishing Committee meeting, Roosevelt Park, Los Angeles, Calif., 7:30 p.m.
March 6	First Connecticut Indoor Skin Diving Tournament, New Haven Y.M.C.A. Sponsored by New Haven Y.M.C.A. Aquatic Committee.
March 15	Close of California lobster season.
March 16	California abalone season opens.
March 19	Gen-Cal Council meeting, Alameda Red Cross Bldg. Host club, East Bay Barnacles.
March 20	International Skin Divers meet, Ediz Hook, Port Angeles, Wash. Nemgorf Divers.
March 22	Skin diver program of films, short subjects, Manhattan Center, 8:30 p.m., 311 W. 34th, New York City.
March 27	Greater Los Angeles Council of Diving Clubs Competitive clam dive and chowder dinner, Newport Pier, sponsored by Newport Harbor Sub-Mariners.
March 28	Greater Los Angeles Council of Diving Clubs meeting, 8 p.m., Lynwood Recreation Center, Lynwood.
April 6	Competitive Spearfishing Committee meeting, Roosevelt Park, Los Angeles, Calif., 7:30 p.m.
May 1	Second Annual Sea Scavenger Hunt, Quonachontaug, R. I., Associated Skin Divers.
May 1	Classification Competition, Greater Los Angeles Council of Diving Clubs, Cabrillo Beach, San Pedro, California.
May 15	Greater Los Angeles Council of Diving Clubs Spearfishing Competition Championships, Salt Creek area, South Laguna, Calif.
May 14-20	First International Treasure Hunt, San Juan, Puerto Rico, Caribe-Aqua Assoc.
May 29	Ohio Competitive Dive, Mansfield.
May 22	Atlantic Skin Diving Council Individual Open Spring Rodeo.
June 5	Pacific Coast Championships (location to be announced).
June 18-19	ASDC Spearfishing Contest.
June 26	National Underwater Spearfishing Championships (location to be announced).
July 30	National Open Spearfishing Championships of Great Britain, Looe, Cornwall, England.
August 1-5	World Underwater Spearfishing Championships, Rome, Italy.
August 16-18	New Orleans-Grand Isle Scuba Divers 1960 International Tournament.
August 20	ASDC Championship Tournament.
August 21-22	Underwater Society of America, first annual convention. Shamrock Hilton Hotel, Houston, Texas.





UNDERWATER SOCIETY OF AMERICA

JOHN J. McANIFF

Director of Publicity,
Underwater Society of America
P. O. Box 724, Station A
Champaign, Illinois

THIS MONTH we are happy to be able to report on the action taken by the Executive Committee of the Amateur Athletic Union of the United States at the recent meeting held at Miami, Florida, in December. The jurisdiction of the sport of Competitive Skin Diving has been relinquished by the A.A.U. in favor of the Underwater Society of America, effective March 1, 1960. The request for affiliation with the A.A.U. by the Society is under consideration and a favorable report is expected shortly. This action marks a giant step forward for the sport which is expected to eventually reach the point of one of the most participated of all sports. Latest estimates indicate that the fans of this sport have reached the five million mark in the United States and this tremendous expansion has occurred within the last fifteen or so years. In the year of 1960 alone it is expected that literally thousands will participate in the many lead-up competitions to the First National Championships for Competitive Skin Diving held under the sponsorship of the Underwater Society of America.

Reports from Miami indicate that two extremely energetic individuals of the skin diving world Eugene D. Vezzani and Serge Birn carried the message of the Society very effectively to the meeting and were ably assisted by other well known persons whose names have become synonymous with the fine sportsmanship and excellent leadership which has brought our sport along through the years to its present recognition. Such familiar names as H. V. "Pappy" Flood, Jack Faver, Mrs. Marie Dessell, George Krasle; worked tirelessly to bring about the final plan at the Miami meeting, which on Serge Birn's motion was voted on and passed with a tremendous majority.

Planning for the 1960 Competitive Skin Diving season is in the hands of the Society's Vice-President for Competitions and with his team of prominent people of the competitive field working in close cooperation with him it is expected that most of the season's work will have been prepared by the time this is published.

To date, a few tantalizing indications of the new competitive structure have been released by Del Wren, Competitive VP. (1) The United States has been divided into two sections—the Eastern Section and the Western Section. The purpose of this division is so that the National Champion-

ship will alternate in location each year. The 1960 Championship will be held in the Western Section. The Society stands ready to receive bids for the Championship, and interested organizations should contact Mr. Wren at Society Headquarters. Complete details on bid qualifications are available. (2) The Society recognizes the Miami Skin Divers Club as the defending National Champions for 1960. They are located in Miami, Florida. (3) The Society recognizes all 1959 Regional Champions as 1960 defending Regional Champions. (4) An important change is to be found in the Regional Area system. The seven areas of 1959 have given way to Council Area Championships for 1960. Multi-State, or "Super" Councils are to hold Championships in each of their States, and then a final Council Championship, in which each State will compete. State Councils will hold, or help organize State Championships in theirs and surrounding States not having State Councils. They will then hold a final Council Championship, in which each of these assigned States can compete. Each Council will then send its Council Championship Team to the National Championship. The complete details will soon be available to all interested parties.

From the Convention city for 1960, Houston, Texas, comes the announcement of appointment to co-chairmanship of the Convention Committee. Mr. George Youmans, newly elected President of the Southwest Council of Diving Clubs, will serve in this capacity with immediate past president, Hal M. Lattimore. Both of these gentlemen are held in high respect in their home communities and with the executive abilities already shown in their capacities within the Southwest Council they will definitely do a fine job with the management of the First Annual Convention of the Underwater Society of America.

Late news from Houston announces the location of the Convention as the world famous Shamrock Hilton Hotel. The night of August 20th during the convention will be devoted to a banquet and dinner dance, with the music of Shep Fields and his Rippling Rhythm Orchestra, and a complete star-studded floor show. Other particulars of convention events will be announced as soon as arranged.

In a recent Society report we mistakenly announced Mr. Donald Kenley President

of the Middle Atlantic Underwater Council as the Society Historian. Mr. Kenley is serving as Advisor to the President in matters concerning Public Relations. Don has practiced in this field professionally for a number of years and is expected to contribute a great deal to the Society through his experience and knowledge of such matters.

In a last minute word from President Carl Hauber the matter of club membership conflict has been straightened out through the efforts of Vice-President Will Jacobs and the Charter membership of the Northeast Council of Skin Diving Clubs has been clarified with the Society.

This same action by V. P. Jacobs also clarified the charter membership of the Massachusetts Council of Skin Diving Clubs. An exact count of the clubs and individual members in these Councils and the others in the Society is being compiled through the Director of Membership, Rusty Sherrill of the Atlantic Skin Diving Council.

By ways of quest for the answer to a small mystery President Carl has asked that any one knowing the correct address for the Michigan Council of Skin Diving Clubs please notify Society Headquarters as soon as possible. At the final meeting of the Board of Governors at Chicago a representative left a name and address for same but repeated letters to this address have received no answer. Michigan; is you in or is you ain't?

Having completed successfully his duties at Miami, Governor for the Georgia State Skin Divers Association, Eugene D. Vezzani is now launching into his recently assigned duties regarding legislation. Gene hopes to study any and all material from each of the states and Councils regarding legislative matters and will welcome suggestions and copies of existing material to aid him in his efforts. With a committee soon to be appointed it is hoped that the Society will check the pulse beat of the nation in legislative matters concerning skin diving through the very capable and proven leadership of the gentleman from Georgia. It is requested that any and all material submitted on this matter be sent to Society Headquarters, c/o The Chairman of the Legislative Committee.

In response to repeated requests the Society this month will start to make available to anyone interested, a beautiful full color 8x10" actual photographic reproduction of the Society's Insignia. This item is offered with just enough to cover costs and mailing. Requests for same should be mailed with check or personal money order payable to the Underwater Society of America in the amount of only \$4.50. Be sure to address your requests to "Insignia, Underwater Society of America" at the address shown above for the Society Headquarters.

As a final item of interest from Society Headquarters, President Carl Hauber reports that at least ten different cities have already submitted their desires to handle the 1961 Convention for the Underwater Society of America. Among these are Buffalo, N. Y.; Tucson, Arizona; Philadelphia, Pennsylvania; Miami, Florida, etc. This certainly illustrates the advance thinking of these cities and their convention bureaus plus the fact that skin diving is gaining the prominence it so definitely deserves in the eyes of the general public.

We continuously urge any and all individuals and clubs to get in on the act by immediately joining the Underwater Society of America. All requests for membership should be directed to "The Director of Membership, C. K. Rusty Sherrill" and be sent to the Headquarters address of the Society listed above. A convenient application blank is printed here and may be used for either club or individual membership application.

UNDERWATER SOCIETY OF AMERICA P. O. Box 724, Sta. A, Champaign, Illinois

Application

For

Membership

1

ASSOCIATE MEMBERSHIP: for individual unattached divers.

Name

Address

2

CLUB MEMBERSHIP:

Name

Address

Council Affiliation (if any)

Please list the name and address of all members desiring to join the Society on a separate sheet and mail with this blank.

A scene of "Mr. Louis" drilling a wildcat well off the Texas Gulf Coast located in about 100 feet of water. Around these wells we find the great marine life of the Gulf that is sought after by divers of the great Southwest. While you are attending the 1960 Underwater Society of America Convention you too will have a chance to dive at these fabulous spots.

There are things about Texas that just can't go without mentioning . . . "Remember the Alamo!" . . . The great wealth in the fabulous land of the oil well and, of course, the legendary cowboy. Texas, land enough to hold modern industries and luxury right alongside the trail worn cowboy and his herd.

You are there in . . .

HOUSTON

By George A. Youmans

President
Southwest Council of Skin Diving Clubs

FOR THE ANNUAL CONVENTION OF THE UNDERWATER SOCIETY OF AMERICA

This fabled land of superlatives will thrill you with its busiest port, world's tallest monument, costliest real estate, swankiest shops, smartest restaurants and friendliest hospitality. You'll find that Texas divers are anxious to show you their favorite diving spots from Brownsville, Texas, to Grand Isle, La.

While you are there see the San Jacinto Monument and the U. S. Battleship "Texas"—the San Jacinto Monument is the tallest memorial in the world . . . and towers 570 feet high. The U. S. Battleship "Texas", famed warship of two World Wars, is now permanently berthed at San Jacinto State Park. A tour of its massive decks should be a "must" on your visit to Houston.



Convention Site, Shamrock Hilton—Houston.

DRIFTWOOD

Please address all notes, letters and stuff to:
"DRIFTWOOD"
Skin Diver Magazine
Lynwood, California



"Indeed, indeed, Repentance oft before
I swore—but was I sober when I swore?
And then and then came Spring, and
Rose-in-hand
My thread-bare Penitence a-pieces tore."

—Omar Khayyam

I think we're far enough into this new year for me to safely assume you've broken all those glittering Resolutions you made three months ago. However, you will possibly be overjoyed to hear that I shall—by the authority invested in me courtesy the Imaginary Council For More Free Thinking And Diving Time—grant you the opportunity to firmly resolve, this instant, to get underwater more often. Break THAT one and I'll remove your name from the list I recite during my nightly devotions. This month's mail is a heart-warming blast of varied opinion. I shall now away to scrape the grounds from the coffee pot while you lounge on the old jetty and seek solace in the boisterous murmurings and glad little cries...

What you've said in the past leads me to believe you are, in the best sense of the words, "one of the people." Someone who loves diving, women and coffee; in my case it's diving, men and coffee. I am not defending Beatniks. I'm defending the little-publicized group called *The Beats*. A *Beatnik* is a person who is looking for what true *Beats* ("the people"), beachcombers, divers, etc. have already found. You are completely right in your anti-*Beatnik* campaign. They are disgusting and degrading to the true *Beat*. So, when you knock the word *Beat*, remember that a *Beat* and a *Beatnik* are two different kinds of seaweed altogether.

TERESA RAU
101 Garden Hill
Redlands, California

And equally all-wet?

Can you tell me where I can go, in the Southern California area, and dive in fresh water? Just once, I'd like to dive where it's nice and calm, where there's no snarling, vicious abalone or biting sharks or nipping Morays, where I wouldn't have to put myself back together after being smashed on the rocks—just once, that's all, just once to look. By the way, as far as I'm concerned, you're a fat slob!

HARD
818 Vanitie Court
San Diego, California

Look, stupid, you come whimpering in here with your little request and...

I have been getting *SKIN DIVER* for the past year and, naturally, have been reading *Driftwood* for the past year. I have always wondered what you looked like and, now that I've seen your picture, I see I wasn't missing any thing. May I ask how long you're going to plaster your picture in the *Driftwood* column? Have you suddenly become obsessed with the "beauty" of your face? I also see that you have never heard of such things as Schick, Norelco, Remington, Sunbeam or Gillette. Unlike Abraham Lincoln, a beard doesn't become you at all. But, then, what would?

JACK McDONALD
202 Charles Street
Washington Boro, Penn.

Damnino, Jack. Nothing probably.

Our club, *The Essex County Sandsharks*, a teenage diving club, is faced with an enigma which has perplexed man since the beginning of Time. This enigma is Woman. We are faced with the almost insurmountable problem whether we should allow teenage girls to join our club. We have not been able to solve this problem.

The club is nearly split with the Pro and the Con of it. We would deeply appreciate any information or help that any other interested club or person would care to send us. Please mail direct to me at the following address.

KENNETH BECK
Essex County Sandsharks
19 Cheever Street
Danvers, Massachusetts

I vote for letting lots of girls join this club—and to heck with diving all the time.

We both know that Group Thinking has ruined what was once a wonderful sport, characterized by the individualistic attitudes and opinions of its participants. But Group Thinking also nurtures and feeds an attitude directly at odds with the ideals of skin diving. To illustrate: A friend of mine is a zoologist working on an advance degree. He is interested in diving and was asked to attend a meeting of a newly-formed club. At this meeting it was proposed that a star mop be undertaken by the club. The zoologist, realizing the danger and folly of such a thing, immediately protested—and was just as quickly shouted down. So, even though this man is an authority, possessing a great deal of knowledge about sea life and the ecological balances imposed by Nature, when he expressed himself as an individual, he was run-over by the Group. Probably, the appalling lack of knowledge of the sea and its inhabitants—so prevalent among the majority of divers—contributed to this reaction and to such disgraces to the sport such as the "aggregate weight" type of spearfishing contest; but you would think a fair hearing, at very least, could be had by dissenting individuals expressing a qualified opinion. Well, perhaps we may seek consolation in the fact that we are probably the best-organized body of sportsmen in the world. As you would say: *PFUI!*

CHUCK ANGELL
Seattle, Washington

Pfui, indeed, Chuck. Since even a lynch-mob can be considered as Group Thinking manifested into Group Action—I prefer to laud those courageous rogues who strive mightily to see that clear reasoning and logic do not entirely vanish from the planet. Thank God there are many of us who could not "adjust to the norm" were our human lives to depend upon it.

The recent story about the 9-year-old divette, Donna Davison, who learned to swim through diving, sort of knocks a hole in your theory that a person must be an excellent swimmer before he or she can become a diver, *doesn't it?*

RICHARD GOULD
20706 Archwood Street
Canoga Park, California

Not at all. You better reread that piece and notice the controlled conditions under which she was given diving instruction, as well as her father's opinion re advanced diving and the youthful novice. Open your eyes, man.

I'm so darned sick and tired of the way *Driftwood* has seemed to fluctuate, during the past year-and-a-half, I'm forced to break down and write you about it. I read *Driftwood* very regularly. I even have a long-standing, long-distance crush on hairy old you. But I'm going whacky, trying to adjust to the intellectual climate which keeps changing in *Driftwood*. One time, it almost reaches the profound heights of an Aldous Huxley essay. The next, it sounds like *Dear Abbey*—and bad *Dear Abbey* at that. Please stop all this deadly pandering to the tastes of the relatively uneducated and mentally limited. There are many, many highly intelligent divers who read your stuff. Cater to their taste for awhile, consistently. I dive regularly, I date experienced divers and—aside from a reasonably thorough amount of attention devoted to my profession (D.O.)—I am hugely fascinated by everything underwater-ish. How about it, you talented thing? Think you can keep *Driftwood* on the higher level steadfastly, eh?

BARBARA EVANS KLINE
Los Angeles, California

Now do I tell you how to state a prognosis, doc?

SPECIAL NOTE: Will Mrs. Gladys Deboult, of Detroit, Michigan, kindly contact Miss Gwyn Roberts, c/o Cleave Court, 1st Seriol's Road, Llandudno, Caerns, Wales. Gwyn tried to reach you through this column, but I do not have your full address. Get going on it because Gwyn's note is dated December 21, 1959. Aren't I a hell of a nice guy to go to all this trouble!

I am writing to inform you that we have formed a new club, here in Sea Girt, New Jersey, named *The Sand Sharks*. There are, presently, four members in this club besides myself. If anyone in the vicinity of Sea Girt or Spring Lake would like to join, please send me a line.

CHARLEY BEST
The Sand Sharks
510 Brooklyn Boulevard
Sea Girt, New Jersey

Cheers and all like that, Charley.



Your note to Eugenie Clark's letter was most apropos—and here's a picture to prove it.

WILLIAM M. STEPHENS
Sunrise Boulevard, Route 3
Fort Myers, Florida

Wonderful gal, isn't she?

You and your Koffee Kup Column are cheap, dirty trash! Fortunately, I, too, am cheap, dirty trash.

BILL CASHMAN
Evanston, Illinois

Remember, YOU said it, first.

I must, after several years, put in my 2 cents worth of comment. I've been diving regularly for the past 11 years, thus I feel I may consider myself as being out of the novice class. The thing that irks me the most is the diver (or, so-called diver) who loudly claims that the diver with scuba is the only *real* diver. They seem to be unaware that the lung is new to the diving world. Until three years ago, I had rarely used any type of breathing gear. The snorkel was second in importance only to the face-mask. I even dived for a couple of years without the aid of fins or flippers. To me, the snorkel is much more dear than my knife or speargun. I freely admit to using my scuba more often than not when diving these days, but I get as much *or more* pleasure from my old snorkel.

LES GRAFF
460 Ghormley Avenue
Oakland 3, California

I know what you mean.

As a fearless skin and scuba diver I have encountered many vicious underwater monsters in the untamed and turbid waters near Fresno, but I'm having a problem bringing back sufficient evidence of my kills to show our local club. My three-rubber Sampson gun is equipped with a chisel-point powerhead which seems adequate for our local variety of sand-dabs, starfish, sea anemones and hermit crabs but—for some reason or other—they seem to disintegrate upon contact with the spear. I don't think the starfish are vicious enough to fight back, although the sand-dabs are pretty mean. Should I use a different variety of gun? Please advise.

DON MARTIN
2106 Cherry Avenue
Fresno, California

It's letters like this one that make me glad I managed to get out of bed. Look, Martin . . . why not try bringing them back alive? For this feat I suggest a #10, 6-ply leather glove. You can get double-duty out of it by using it when you pick up that hot coffee pot.

Some friends and I have been discussing the problem of yellow striping on diving suits insofar as attracting sharks. I, myself, have yellow striping on my suit and I've been down in waters where big sharks have been spotted. For the benefit of other divers and myself: Is yellow striping harmful to a diver's safety?

JOSEPH BANAS
302 Nassau Avenue
Brooklyn 22, New York

It's a moot point. I wouldn't wear them, myself.

Choose your own spot to "bash the ball" (figuratively speaking, of course) but if you advocate eliminating part of the sport, such as spearfishing, (because you no longer dig the slaughter-bit or, maybe, are too old to catch anything faster than an Ab) and are successful in your advocacy, you'll kind of gum up the works of the whole sport in general.

RALPH POPLAR
4937 Highland
Kansas City 10, Missouri

More and more divers seem to be discovering for themselves that there is a heck of a lot more to diving than merely killing fish or mass murdering starfish. I hope to see that halcyon day when 90% of all divers go underwater with cameras and scientific instruments in their hands instead of spearfishing equipment. I realize I'm nauseatingly eccentric, but . . .

Well, here goes: You think you got troubles:

It ain't fair or fitten
To be thusly smitten,
Underwater I'd be flitten
But have to finish knitten.

MERLYN WILSON
Box 1025
Lynnwood, Washington

Yeh? Knitten WHAT? Boy, if that isn't like a woman everytime. Give us the FACTS, honey. Knitten bones? Knitten little garments? Knitten what?

My husband and I were having dinner in a Malibu restaurant when he suddenly pointed to a bearded fellow at a nearby table and whispered, "That's Carl Kohler over there—the guy who writes the Driftwood column!" He wanted to introduce us to you, but I told him it wouldn't be polite since you were surrounded by a lot of people and seemed to be having a private celebration of some kind. Now, my husband's real furious with me. He thinks I deprived him of his big chance to meet his big idol—if that were you. Can you tell me if you had dinner at that restaurant around the 15th of December of last year? I still don't think it was you, although that guy sure looked like your photo—raggedy beard and all.

DORIS GRENWAHL
Los Angeles, California

Honey, you're both right: that was me, and I loathe having people pop over to my table unless they're greeny-eyed brunettes who want to swoon at me or magazine editors who want to trade money for words. See—you missed nothing.

Knowing your generous mien and being ill put to afford normal rates for space, perhaps you will permit me to advertise my newly-formed business venture in your column. WET TOURS, INC., is pleased to announce the regular formation of parties interested in the spearing of fish as a sporting event. WET TOURS, INC., will fully equip such safaris and include such personnel as Fish Beaters, Arbalette Bearers, and a Wet Hunter to oversee and direct all Shooting Activity. This Hunter is a gentleman of great charm and grace, and will also assist the novice in his collecting of suitable trophies for his library or den. Our Taxidermy Department is without equal in the preparation of ferocious Scallop for wall-display or the head of the charging Perch mounted on a walnut plaque. For those who are disinclined to become completely immersed, may we offer our Wadding Pools, stocked with fine goldfish which can be taken with Depth Charges and Dipping Nets. We also offer a most economical event: Ten minutes with a hay fork in the loaded hold of a Tuna Clipper. Whatever your sporting tastes dictate, WET TOURS, INC., is prepared to furnish. Thank you, Uncle Kohler, for the use of your column.

R. C. CONKLIN
32 Thornton Avenue
Venice, California

If you neurotics think I'm going to try and top this kind of marvelous humor writing—you're wrong. Fine—REAL fine, Conklin. Tell me, does WTI have a BRASS SPITTOON or some such vessel in which to transport enchanted sportsmen to faraway slaughter soirees? . . . and as the seething maelstrom of murmur and shriek sweeps out again from beneath these sturdy plankings, I bid thee farewell and hope you'll return next month. If you can't bring a greeny-eyed brunette, bring a magazine editor.

CARL KOHLER, Wet Hunter.



Instructor's Corner

By NEAL HESS

Underwater Instructor
Certified by Los Angeles County
Training Director Boston YMCA Sea Rovers



The February issue of "Skin Diver" should have included the following names of Certified Instructors:

Stephan J. Labadine
152 Highland Avenue
Malden, Massachusetts
William Mitchell
4226 East Fourth Street
Tucson, Arizona
Robert Cabral
120 Commercial Street
Provincetown, Cape Cod
Massachusetts

Mr. Jackson Fraser of Bellingham, Washington has sent in a very fine booklet that he presents to his students. The booklet is 28 pages long and contains many little helpful hints to the beginner. An example of this is his first chapter dealing with diving in general and in choosing equipment. I like his method of presentation and am impressed with the amount of work that has gone into his booklet. Mr. Fraser has consented to my publishing the first chapter here. The full booklet may be obtained from him for cost which is 75 cents. His address is 2159 Dellesta Drive, Bellingham, Wash.

Jack is active in the northwest YMCA movement to certify diving instructors.

BRIEF HISTORY— ELEMENTARY EQUIPMENT First Lecture

Skin diving is at least as old as written history. This fact may be a little disappointing to some who have the idea that it is a new thing. It is relatively new only as a sport.

The ancient peoples dived for pearls and sponge, shells, and other items of commercial value. For them it was a trade, a business that has carried down through the centuries in various parts of the world.

Assyrian bas-reliefs even indicate the use of a self-contained underwater breathing apparatus for more prolonged dives before the time of Christ. The simple device consisted solely of a large animal bladder inflated with air. If weighted sufficiently to sink with the diver, this bladder would allow him to inhale air at exactly the right pressure for his depth. Exhalations would have to be made into the water. After a very few breaths, the bladder would be empty. This device was not practical enough to come into wide use nor to carry down to following generations.

Whatever the shortcomings of the Assyrian device, it was certainly more practical and more in accord with the laws of physics than anything sketched by the inventive brains of the next dozen or more centuries.

The invention of goggles which form air pockets over the eyes so much improved vision underwater that the hazy could be seen in all its colorful and strange beauty. A few ardent swimmers copied the early goggles of the sponge and pearl divers, and began diving for sport. Guy Gilpatric, an American vacationing on the shores of the Mediterranean, was among the early few. Gilpatric's adventures in this field were first published in "The Saturday Evening Post" and showed it to be a tremendously exciting and satisfying sport. His articles were later published in book form as "The Compleat Goggler."

Jacques Cousteau, a Frenchman who enjoyed the sport of skin diving, became active in the French underground during World War II and used his sport to harass unsuspecting German occupation forces. It was in this environment and under these circumstances that Cousteau worked on and perfected his prototype of the Self-Contained Underwater Breathing Apparatus (scuba) now in universal use and highest favor. Under his patents and license, this apparatus is now made by several manufacturers and marketed under various trade names by a dozen or so distributors.

Other equipment for similar use has been developed. None is as simple, easy to use, or as reliable and safe as the air scuba. The one other notable and worthy type of equipment is the oxygen rebreather. It has the great military advantage of emitting no tell-tale bubbles. It has, as well, the handicap factors of oxygen hazards so that it cannot be used for more than a very few minutes below 33 ft. depth, and above that for a limited time only. It is strictly for the use of highly trained professionals and military divers.

You may have heard of Momsen Lungs, a type of rebreathing apparatus used as a submarine escape device. Now obsolete, there are still some of these devices in surplus military stores, attics and cellars. The Momsen Lung is strictly a one-way ticket up. It cannot be used to descend in the water and attempt to descend with it will result in immediate chemical burning of the lungs. Some dozen lives have been lost by persons ignorant of this fact.

The skin diver is warned never to use any oxygen or rebreathing devices. Oxygen poisoning can too easily be the result and symptoms run from slight dizziness to epileptic-like convulsions. Strangely, the convulsions may be the first symptom, so I ask, "What would your future be after a convulsion in the water?" Avoid oxygen when diving, except as it is diluted in natural air.

You will find many books on the subject of diving covering the new horizons it has opened in adventure, exploration, salvage, crime, sport, photography, and several, if not most of the sciences. It is to be recommended that you read what you can get through your libraries, buy, beg, or borrow. You will find them enjoyable reading.

The term "skin diving" derives from its first bare practices and in the common

tongue it has become an idiom with meaning broadened until it is now used to include the fellow clad in exposure suit with perhaps a hundred pounds of equipment strapped to him and carrying camera, spear gun, and sundry other items to suit his fancy or his purpose. It excepts only the hard-hat professional diver and lifts that exception when the professional turns to scuba gear as he now does for much of his work.

Let us now consider the elementary equipment we will use in diving. These items are mask, snorkel, and fins. First is the mask which creates an air pocket over the eyes and improves underwater vision many times over. It is the window through which enjoyment of the underwater world is opened to you.

Why a mask? Why not goggles? Separate lenses are very difficult to hold in exactly the same plane. Any variation from a single plane will result in double vision and be a disadvantage. Some goggle-like masks are made with a single glass to overcome this trouble. Unless provision is made for equalizing the pressure of the air in the goggles with the pressure of the water outside, there will be a suction on the eyes progressively greater with depth. Progressively, there will result minor discomfort, bloodshot eyes, actual bleeding, and severe damage. Japanese and Italian divers overcame this by connecting a soft rubber balloon or air bag to each eyepiece—the bags would compress readily and exhaust their air into the goggles. It was an awkward arrangement.

By including the nose in the mask, pressure is equalized through the nose without thought or effort. Air may also be exhaled through the nose to displace water that may enter. A shallow skirt on the mask is usually preferred, as it will trap less air and will take less air to empty it of water. A deeper skirt will give more room for a long nose and will assist in blowing air under the hood of a dry suit in order to equalize pressure externally on the eardrum. A flat glass results in magnification of objects underwater because of the refraction of light passing from water to air. This magnification is usually learned to be lived with—at least after the spearfisherman comes up with his first big fish and finds it to be so small he is ashamed to let anyone see what he bothered to bring ashore! Masks with a slightly convex glass will counter this magnification for nearsighted divers, but they make too much correction for farsighted vision. For persons with visual problems, the individual eyeglass prescription can be ground in lenses and adhered to the inner surface of a special mask at a cost of about \$40. Contact lenses are good for diving. To facilitate clearing of water, one type of mask has an exhaust valve. To facilitate clearing of the inner ear, that is, equalizing pressure through the eustachian tube by snorting, other types allow easy finger pinching of the nose. The full-face type of mask is favored by very few and is thought by most to be overly cumbersome, difficult to clear, and unnecessarily dangerous.

Select a good mask for your purpose. Test it for fit and tightness by placing it carefully over the nose and eyes without using the head strap, then hold it to the face by inhaling. If it does not leak air, it won't leak water.

In selecting a mask, you should avoid these things:

Plastic lens (cannot be kept from fogging and soon become scratched).

Deep well all around (you'll have to turn on your back to clear it of water).

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Poor rubber or very heavy rubber skirt. And, you should look for these good features:

Safety glass lens (easily anti-fogged by saliva rub and rinse).

Good quality rubber and fine beveled skirt.

Stainless metal protective and retaining band for lens.

Shallow well—at least at sides of lens.

The second elementary item is the snorkel. This mouth breathing tube allows you to breathe surface air while your face is in the water and you are watching below. By sticking your tongue in the mouthpiece, or by biting the mouthpiece, you can dive without taking your eyes off your objective. On surfacing, blow the tube clear and resume breathing. With scuba gear and weighted to nearly neutral buoyancy, it is difficult to breathe surface air without a snorkel when in a good swimming position. Keep your snorkel attached to your mask strap where it is always ready for use. In choppy water, time your inhalations to the quiet troughs. For rest and freer breathing without a snorkel, swim on your back. Breathe free air on the surface—save your bottled air for underwater.

In selecting a snorkel, avoid these things:

A "C" or "S" shape which will hook seaweed and snag in gear.

A rubber or ping-pong ball valve which will leak in some positions and may shut off air if need causes a sudden gasp for it.

Firm plastics which are highly subject to breakage and not easy to free from entanglements.

Overly large diameter or long tubes which are not only harder to blow clear but result in rebreathing a high percentage of exhaled air.

Lap-jointed tubes which cause turbulence in the air flow.

And, you should look for these preferred features:

Simple "J" shape without a valve.

Good rubber stiff enough to stand, soft enough to bend and free from entanglements.

A comfortable mouthpiece.

The third item of elementary equipment is the foot fin. This is an aid and great assistance in swimming but it must be regarded as an aid. You must not allow yourself to become dependent upon your fins for swimming. To be safe in the water, you must not exceed the distance you can swim to safety without fins. To keep yourself aware of this limitation, you must occasionally swim without them.

You will find a wide choice of makes and patterns in fins, most of them sound and



"If I told ya once, I told ya a hundert times—don't never dive head-first!"

of good design. There are many, too, of the five-and-dime or corner-drugstore variety that are about as useful and as long-lived as paper slippers. Among good ones you will find little difference in price and that little difference will be very directly reflected in the amount of good rubber in them. Poor fins will be little help in swimming and since they usually combine poor design with rubber of poor quality, they will also be cheap in price.

Good fins may be relatively soft or stiff. The soft fin is to be recommended for persons who are not strong swimmers since they do not make such cramping demands of the leg muscles. The flexible fin will require more kicks of lesser power when compared with a stiff fin. The stiff fin is to be recommended for swimmers with highly developed leg muscles. The very flexible fin will be found faster for very short spurts; the stiff fin will get the swimmer over great distances with less effort.

You should seek the following good fin features:

Flexibility or stiffness to match your leg muscles.

A blade angled downward from the foot pocket.

A comfortable fit with plenty of room for a suit if you plan to get a suit (you can wear a pair of heavy socks in them when not wearing a suit).

A full foot pocket with open toe for foot protection and comfort.

Much of your equipment is rubber. Heat, sunlight, oil, salt and chemically polluted water are enemies of rubber. After use in salt or dirty water, rinse in fresh; keep in a cool and shaded place; then you will enjoy maximum life for your investment in diving equipment.

This is your introduction to skin diving. Exceptionally strong swimming ability is required by some courses in diving. I do grant and insist that good swimming ability is absolutely necessary to safety in diving. Most important is that the individual be at ease and at home in the water. I believe that the exceptionally strong swimmer can swim into trouble just that much faster than the good swimmer. *What is important is that the individual know his limitations and stay within those limitations.*

The first session in the pool will be a test of your swimming ability and of your ability to be at home in the water. This will indicate to you what will be required of you by the end of the course and before a certificate will be issued to you of satisfactory completion. The final test will also cover your use and handling of scuba equipment.

This course will not make you a diver on a par with a Navy Underwater Demolition Team man, nor will it enable you to enjoy the short working hours and terrifically high rates of pay of hard hat commercial divers. It will not enable you to do any hard work underwater which can come only by easy and long-continued practice. There is a lot this course won't do.

What it will do is very much worth while. Diving will open a whole new and strangely wonderful world to you with new sensations and new enjoyments. To take a dive in clear salt water with its colorful plants and teeming life is better than a trip to Mars . . . and you are back home for dinner. Diving will open new hunting and fishing to you. You may be able to pick up occasional fees or good rewards for finding lost articles. Diving will certainly widen your world and brighten your life.

Instructors, take note: Mr. Hess is compiling a complete list of instructors throughout the country and requests that you send him your name, address and an outline of your skin and/or scuba instructor course. Mr. Neal Hess, c/o Skin Diver Magazine, P. O. Box 111, Lynwood, Calif.

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News Current

NEWS FROM AROUND THE GLOBE
COMPILED AND EDITED IN
SKIN DIVER OFFICES.

Local diving news from readers welcomed.

BERMUDA—Three cases full of gold objects and other artifacts from the sunken Spanish vessel *Vigo* have been recovered by a salvage team lead by **Teddy Tucker**. The salvage team claims it has probed only about a tenth of the wreck area. The cache from the 1637 wreck are on display at **Tucker's Wreck Museum** in **Hamilton**.

PUERTO RICO—Caribe-Aqua Association's first international treasure hunt for skin divers will be held in **Puerto Rico** from May 14th through 20th. The treasure hunt for several thousand dollars in prizes and merchandise will consist of keys hidden on the bottom of **Coral Cove** in **San Juan** which when salvaged open treasure chests of valuable prizes on the beach. In addition to the hunt and planned dives exploring the tropical wonders of **Puerto Rico's** reefs, there will be spearfishing trips and sight-seeing tours. For additional information and a fully illustrated brochure, contact **Caribe-Aqua Association**, **Route 17, Rochelle Park**, **New Jersey**.

FORT LAUDERDALE, FLORIDA—Seven members of the **Spear N' Fin Club** relinquished Christmas morning with their families to answer an urgent call from the **Broward County Sheriff's Department**. The divers arrived on the scene at daybreak. Three men in a 12 foot aluminum boat were trying to reach a hunting blind in the Everglades when their boat capsized, drowning one of the hunters in the 15 foot deep canal. Confronted with zero visibility, the first team of divers recovered contents of the boat, the second recovered the body. Divers included **Ed Malinowski**, **Dick Strickler**, **Paul Fischer**, **Howie Wheale**, **Chuck Hayslip**, **Bud Cresse** and **Andy Torony**.

PORT ANGELES, WASHINGTON—A recent find by the **Nemgorf Divers** has proved to be a diver's paradise. The club located a 338 ft., 5,525 ton freighter (**Diamond Knott**) that had been sunk off **Tongue Point**, in the **Straits of Juan De Fuca** in 1947. Even though the wreck had been worked extensively by hard hat divers and 90% of the cargo recovered, the wreck has remained "lost" for several years and is the home of large ling cod. The wreck lies in 135 feet of water and in one of the worst rip tide areas in the **Straits**. The wreck can only be worked at certain times and members of the club plan to beef up their spearguns to capture some of the lings that are of record breaking size.

SAN GABRIEL, CALIFORNIA—A gold diving trip in the river in the east fork of the **San Gabriel Canyon** has been slated for 40 divers from the **Pomona Valley Divers Club**. The trip is being sponsored by the **Certified Divers, Inc.**, of **Montclair**.

PORT ARTHUR, ONTARIO, CANADA—A new three million dollar government icebreaker, the **Alexander Henry** sailed into **Lake Superior** and proudly dropped its one ton anchor. Skin divers were called but were unsuccessful in locating the vessel's anchor.

SYDNEY, AUSTRALIA—A thirteen-year-old school boy was attacked by a shark in **Sydney's** middle harbor. The youth, practicing skin diving with a group of boys, lost his right leg below the knee.

LAS VEGAS, NEVADA—The staff of a local radio station set a record by broadcasting underwater for 48 hours. Among those participating was announcer **Gordon Kent**, suited in a deep sea rig, for the feat.

AMMAN, JORDAN—Two divers have ended a fruitless weekend search of the **Dead Sea** for the Biblical cities of **Sodom** and **Gomorra**, but plan to resume their search this spring. The divers, **Vincent Barwood**, a professor at the **American University** in **Beirut**, and **Melvin Rizzie**, an officer with the U.S. technical aid mission in **Amman**, first became interested in the four thousand year old cities last October when they were flying over the **Dead Sea** and spotted what looked like a long wall on the ocean bottom. Their exploration produced one find, a huge pottery jar which the director of **Jordan** antiquities believes dates back to the era of the two cities. According to the Bible, the two cities were razed by fire for the sins of their inhabitants.

DETROIT, MICHIGAN—Circuit Court judge has ruled a man accused of firing a spear from a diving gun into the chest of a friend insane and had him committed to a state hospital for treatment. The man also threw ammonia in the face of his victim's wife and held the couple captive seven hours.

FORT CARSON, COLORADO—Army specialists at **Fort Carson** already proficient in air and ground rescue, have added underwater rescue to their repertoire. Officers at the fort have announced that trained divers are available to the community and state. The new Army volunteer service was the idea of **Sp-5 William R. Lempe**.

ORLANDO, FLORIDA—A novel turkey shoot to win that holiday bird was held by the **Fathom Divers**. Armed with spearguns the contestants shot at underwater targets in an indoor pool.

MOELFRE, ANGLESEY, ENGLAND—A group of divers of the **Derby Branch** of the **British Sub-Aqua Club** have decided after two days diving for the 100 year old wreck of the **Royal Charter** that it can be crossed off the lists of treasure hunters and left undisturbed in its watery grave. The ship went down in 1859 with a loss of 400 lives and a reported large cache of gold. The wreck was discovered by the divers, but buried deep in the sand with only a few iron ribs remaining. What an opportunity for some suction equipment.

Several stories of divers around the world spending **New Year's Eve** underwater have been heard. Three divers, **Monte Topel**, **Edward Stanke** and **Mel Paulich** welcomed the new year in 12 feet under the ice-crusted waters of a backyard pool in **Norridge, Illinois**. In **Michigan** **Gary Miller** and **Charles Butman** lost a bet and wound up **New Year's Day** playing chess in 30 feet of water. Troubles plagued them, it was dark and murky under the ice and they couldn't see the chess board, then **Miller** ripped his suit on a jagged piece of ice. Anyway it was probably the first underwater chess game played on **New Year's Day** (or any other day). In **Bradford, England** ten members of the **Bradford Branch** of the **British Sub-Aqua Club** had television and newspaper reporters on hand when they submerged to see the new year enter. The group completed their after dive celebration with hot toddies and hot soup.

KALAMA, WASHINGTON—A half dozen divers were credited for much of the success in recovering a private plane that carried two **Seattle** executives to their death in the **Columbia River**. After repeated dives, the position of the wreckage was located. Divers included **Cloyd Schneider**, **Bob Davidson**, **Jack Richardson**, **Gary Gilhuly**, and two divers from **Portland**.

HONOLULU, HAWAII—Diver **Joseph Shon** emerged after 40 hours in a recompression chamber at **Pearl Harbor** with his legs partly paralyzed after an attack of the bends. **Shon** was stricken after diving three times to depths of about 110 feet off **Kaena Point**. This was the diver's second battle with caisson disease. He spent 30 hours in the tank in 1957 after overextending himself. He recovered completely that time.

MARIANAS TRENCH, PACIFIC—The U. S. Navy's bathyscaph, Trieste, set a world's record dive in late January when it descended over seven miles to the bottom of the **Marianas Trench**, the deepest known hole in the world's oceans. Aboard the Trieste on the 37,800 foot dive were scientist and designer of the bathyscaph, **Jacques Piccard** and Navy Lt. **Don Walsh**. The descent proved that the depth of the **Marianas Trench** was 2,800 feet deeper than believed. A 1957 sounding by a Russian oceanographic ship set the depth of the trench at 35,000. The deep probe into the ocean has taken man to a depth far greater than the tallest mountain of the world. The 37,800 foot dive compares with the 29,028 foot altitude for **Mt. Everest** in the **Himalayas**.

TACOMA, WASHINGTON—Skin divers **Dave Bodyfelt** and **Bob Kroeger** worked four hours in 30 feet of water and ten feet of mud before raising a 30 ton, 300 hp **Fairbanks Morse** diesel engine. The engine toppled from a scow during rough weather.

SACRAMENTO, CALIFORNIA—A leveling off in the downward trend of hunting license sales and a continued steady increase in angling license sales was announced by the **California Department of Fish and Game**.

KYRENIA, CYPRUS—"The big one that got away" wasn't a fish, but a lovely Greek amphora discovered in 100 feet of water between **Cyprus** and **Turkey**. **Andriko Carilolou**, operator of an American gas station, recovered three perfect amphora, buoyed the spot and dutifully notified the local archaeological office. He was authorized to dig them up, keep one and turn the other two over to the government. For five days he worked patiently, gently digging away the sand. Finally he brought them up, presented two to the government museum and proudly brought one to his own home. To give the vase, dated from the third century B.C., a proper setting he decided to white-wash his living room. He dropped his biggest brush from the top of the ladder onto the amphora ending the home exhibit.

MT. HYPEMEE, AUSTRALIA—Ten divers have failed to solve the mystery of **North Queensland's** "haunted" crater lake. The **Cape York Devil Divers Club** of **Cairns** descended over 200 feet below the surface of the lake, but were unable to find the source of water that keeps a constant level in either wet or dry seasons. The divers had to lower themselves by ropes 160 feet down the sides of the crater to reach the water level. At its deepest point the water was 285 feet deep. According to local aboriginal folk lore the crater is the home of devil-devils.

LAKE GEORGE, NEW YORK—**Gene Parker**, whose articles have appeared between the pages of many **SDM's**, will attempt to swim the length of **Lake George** underwater sometime this summer. The long swim will not only break the present underwater distance record, but possibly the endurance record also. Several weeks will be spent prior to the feat in charting the lake, its currents, reefs and islands.

OCEAN CITY, MARYLAND—**George Feehley** searched the **Sinepuxent Bay** waters for four guns, a pair of binoculars, and a flashlight lost by hunters. After two dives searching in muddy water with twelve inch visibility, he surfaced with the lost gear.

KIEL, GERMANY—A deadly harvest is underway 80 feet below the water's surface in the harbor at **Kiel, Germany**. Divers are gingerly gathering up 80,000 artillery shells filled with a lethal **German nerve gas** which was never used. The stockpile shells were discovered by **British** occupation forces after **V-E Day**. The projectiles were loaded in ships that sailed only to the entrance of the harbor before the dangerous cargo was dumped. However, recently it was found that salt water had eaten into the aluminum fuses, creating the danger of a giant underwater blast. The nerve gas, called **tabun**, is not explosive but the shells contain a charge designed to explode them and thus spray the invisible particles of the lethal gas over wide areas. **Tabun** is colorless and odorless and if inhaled, will cause death in a matter of seconds. Divers are retrieving the shells. Then they are turned over to workers in protective rubber garments for removal of the fuses. The shells will be packed in steel barrels, filled with concrete and dumped in the **North Sea** at depths of 12,000 feet.

BOSTON, MASSACHUSETTS—Six divers searched the frigid waters of the **Charles River** for several days before recovering the body of a five-year-old boy who tumbled down the embankment into the river. The boy's uncle drowned trying to save him and the father was pulled from the river by neighbors. The body of the uncle was recovered shortly after the accident.

LOS ANGELES, CALIFORNIA—Diver **Bob Bell** has discovered a **Japanese** submarine, apparently one sunk 18 years ago on **Christmas**, in 60 feet of water near the **Los Angeles Harbor** breakwater. The diver's find has caused a stir of controversy as the **Japanese Navy**, in reply to a query on the sub denied that none of their subs had been sunk in **LA Harbor** during **World War II**. However, official records at **Fort MacArthur** of the harbor defense of **Los Angeles** in **World War II** lists entries about a **Japanese** sub believed sunk, also residents recall hundreds of persons watching from shore as **U.S.** planes and ships heavily depth-charged the area where the submarine had surfaced, only a thousand yards offshore. **Bell** reported that the bow was blown off the sub and that the conning tower and upper hatches were still dogged down tight and said he believed at least part of it must still be water tight. **Bell** believes the sub is in salvageable condition and that the bodies of the crew must still be aboard.

PROPHETSTOWN, ILLINOIS—Skin divers probed the **Rock River** in search of three cash registers believed tossed from the bridge by one of three persons involved in a dozen break-ins in surrounding cities. Among the divers were **Bill Leonard** and **Sgt. Elmer Wagner**. The divers employed a metal detector in their search.

BRANDFORD, CONNECTICUT—Twenty-five divers of the **Connecticut Council of Diving Clubs Civil Defense** teams conducted an intensive search of the **Lake Lillinonah** area in search of the weapon used in the killing of a super market manager. The three and a half hour search was directed by **Frank Fabbri**, civil defense director of the northwest area of the council, assisted by **Paul Tzimoulis**, southwest area director, and **Frank Giordano**, vice-president of the council. No weapon was discovered by the divers who worked in nil visibility, chilling waters and whirlpool currents.

PENSACOLA, FLORIDA—**Jane Baldasare**, holder of the women's underwater endurance record, has broken her own record by 38 hours. **Jane**, in a publicity stunt to aid the 1960 **March of Dimes** campaign, remained underwater 100 hours and three minutes. The 100 plus stay also toppled the current men's record of 84.5 hours. The event was not helped by the weather which never went over 40 degrees and at one time dipped as low as 22 degrees. It was cold for **Jane's** assistants, but the temperature of the water in the tank was kept at a constant 95 degrees.

GREAT FALLS, MONTANA—Members of the **Great Falls Scuba Diving Club** discovered a dozen city parking meters, a \$2,000 **Air Force** radio and a box containing aircraft tools on the bottom of the **Missouri River**. Working in cooperation with the city police department the divers entered the icy water after meters had been recovered near shore. After completing a search near shore, the divers chopped a hole in the ice and searched in deeper water where meter coin containers were found wrapped in cloth. Divers included **Robert Anderson**, **Ray Brennan**, **Jim Hollingsworth**, **Jim Johnsrud**, **Dale Muri** and **Dewey Shoemaker**.

Diving enthusiasts now can get a new apparatus for hooka diving. **Bell & Gossett Co.** offers an oil-less compressor with $\frac{3}{8}$ inch neoprene air hose which is buoyant enough to eliminate the chance of snagging.

PORTLAND, MICHIGAN—Search for the missing part of a body or some clue that could identify the victim—or how he met death—has been resumed by state police skin divers. The search began after a fisherman found parts of a body believed dead over a year. The mystery of how the body got into the water, how long it had been there and what happened to the rest of it perplexes police divers. State pathologist reported the recovered remains had been mummified, possibly by being buried in soil containing great quantities of lime and that there was a possibility of homicide.

LITTLE SALT SPRING, FLORIDA—A recent find by **William R. Royal** in one of the two springs he has been exploring the past year after discovering human bones has dated the remains placing them back 10,000 years. A charred log recovered from the depth of the spring was dated as 10,000 years old by **Dr. Carl L. Hubbs** of **Scripps Institution of Oceanography, La Jolla, California**. The radiocarbon dating had a possible error of only 200 years in either direction. Under the log **Royal** found more human bones, which **Dr. Hubbs** said strongly suggests that these and the many hundreds more recovered by **Royal** are equally as old as the log. The dives are proving that the springs were once dry, as stalactites have been discovered. Geologists from all previous knowledge believed the springs of **Florida** had never been dry. **Royal's** most recent and unusual find was a skull containing an almost perfectly preserved brain. Medical men said the brain was the first thing to deteriorate and that it was surely coincidence that the soft matter inside the skull so strikingly resembled a brain. However a **Sarasota** surgeon "operated" on the skull and removed the brain-like mass. After careful examination, scientists are now convinced that the material is an actual fossilized brain.

ANDY RECHNITZER

(Continued from Page 12)

I have been repeatedly thrilled by new experiences underwater."

When asked why he went underwater, Andy replied, "Spearfishing—you betcha. As a complete novice and on but my second trip out for a California black sea bass, I dived sans scuba to 30 feet and speared sans powerhead a 355 pounder. After a two hour tow that pulled me more than a mile, the fish relaxed. Then I found that I had punctured his air bladder. Therefore, I not only had to arrest the fight of the beast, but it was also necessary to hold him up. I had lost my little finger nail sometime during the melee, but tension was too high to be cognizant of the damage until it was all over. Despite the fact that my associate, Ron Church, outclassed me the day before by capturing the existing world's title for this species, July 5, 1956, remains a memorable day."

In the summer of 1950 Andy and a long time colleague, Connie Limbaugh, entered Scripps Institution of Oceanography at La Jolla as graduate students where they started using scuba extensively. Andy recalls, "Our interests have always been very similar. It was only natural, therefore, that we shared the first scuba equipment purchased by the University of California. It was slow going at first. Senior staff members were reluctant to accept this new diving method. Air was hard to get, boats were hard to find and suits were not invented. Connie was determined to see it applied as a scientific tool. His contributions are now synonymous with sound scuba diving practices, unique methods of application and a long list of 'firsts' in undersea observations." Their mutual experiences and efforts have contributed to the advance in the use of scuba for scientific purposes.

Photography, both still and cine, are most useful to this diver-scientist in his underwater research projects. "Usually I do my own shooting as biological happenings require special knowledge about animal behaviour. To catch these actions on film requires personal attention."

Exploration in diving has included discovery of parts of an old Spanish sailing ship during his current stay in Guam. In 1957 he tried submarine speleology under the Isle of Capri in the Mediterranean. Describing the events Andy said, "We entered a grotto, unvisited we believe, during



Dr. Rechnitzer and Don Morris, a Navy diver, with an old Dunn-Miller helmet that was found in the harbor at Guam. It is believed that the rig had been on the bottom for over 10 years. They have also found an old Japanese helmet in the harbor as well as parts of an old Spanish sailing vessel.

more than 2,000 years of human habitation on this infamous vacation spa. Stalactites and stalagmites were abundant in the grotto which has only a submarine entrance. Penetrating more than 60 feet further back under the island beyond this grotto runs a narrow tunnel, black as night, that finally opens into a small air-filled grotto. Here we found tree roots penetrating down through fissures in the limestone rock to reach fresh water which was overlying the sea water."

While in the Pacific with the bathyscaph project he is adding to his shell collection and calls the area a shell collector's paradise. Shells from

Micronesia are being added to his collection from the Mediterranean, Atlantic, Gulf of California, Baja California, Baltic Sea and Pacific Ocean.


Although not a diving club member he is a member of the Scientific Diving Consultants, Inc. (and co-founder of the original firm), the panel on new devices for exploring the ocean, committee on oceanography, National Academy of Sciences, National Research Council and numerous scientific societies. He was a pioneer in the establishment of training procedures and safety precautions for scuba diving, was on the initial teaching staff and qualifiers for the Los Angeles County Department of Parks and Recreation scuba instructors course and adds, "survived the initial years when virtually nothing was known about the hazards and limitations of scuba diving."

His underwater accomplishments have included the deep dive aboard the Trieste and work on the subsequent record breaking dive to over seven miles and an experience that can't be revealed as publicity on it has been censored.

Diving proved valuable to the scientist in gathering a large portion of the material used for his doctoral thesis. His doctoral work involved a comprehensive study of the blood relationships among a family of California fish. Numerous divers assisted him in collecting the small and difficult to capture creatures. To collect the fish he traveled from San Francisco to Guadalupe Island, Mexico, and to the Channel Islands. It required more than two years of collecting before the thesis was complete. The title of the finished work is "A Serological Approach to the Systematics of the Viviparous Sea Perches, Family Embiotocidae."

After meeting almost every kind of underwater denizen in one way or another, Dr. Rechnitzer says, "Mr. Unpredictable, the shark, stands high above all others in my estimation as the spine chiller. I have swum with some big ones and many at one time. I'll yield to their wishes any time if they continue to give me time to get out of the water."

His favorite diving location: "right now the coral reefs are excitingly intriguing, but I sincerely believe that the Southern California and Gulf of California hold an edge over the tropics."

Andy is married and has four children, ranging in age from 2-10. The older three have all been checked out with scuba in the pool. 

Sub-Aqua Job Opportunities

This column is offered to any and all employers seeking divers for various positions in their firms. Copy should be brief giving complete name and address and state requirements needed from applicants. This is a service to the industry and the sport offered at no charge for the space used. Applicants for the jobs listed should write direct to the advertisers and not to "Skin Diver Magazine."

DIVERS WANTED: Former students—Coastal School of Diving only. Applications being accepted for helium-oxygen deep diving training, in connection with the offshore oil well program. Ten year contract pending. Applicants must have one year of commercial diving since graduating. Send resume. A. Mikalow, Coastal School of Diving, 219—5th St., Oakland, Calif.

BULGARIAN DIVERS

(Continued from Page 16)



Broken portions of the tallow laden amphora.

have proved, as far as my information goes, that the grease is tallow, sheep tallow, but we divers and historians are still impatiently awaiting the final results.

Probably the readers of *Skin Diver Magazine* know little about Bulgaria and still less about its history. I suppose they will be surprised by the rich archaeological materials found in our coastline waters. That is why I will dare to tell you shortly about the history of our coast.

Bulgaria is situated in the central part of the Balkan Peninsula and has always been, during the centuries, the gate between Europe and Asia. To the east Bulgaria borders upon the Black Sea.

Our coast has a remarkable history. Here were discovered dwellings of pre-historical men who lived mainly on fish. Later many ancient Thracian settlements were founded. During the ten centuries before Christ the ancient Greeks founded a whole chain of colony towns, some still remain, such as Apollonia, Sozopole, Odessos, Varna, Mesambria, Nessebar, Anchialo, Pomorie, etc. They have been bustling, commercial and cultural centers which maintained connections by sea with all parts of the ancient world.

When the boundaries of the Roman Empire were pushed forward to the Black Sea, the Romans settled down, fortified the old towns and created new fortresses. After the blight of the Roman Empire the coast passed under the domination of Byzantium. Since the Seventh Century, when the Bulgarian state was founded, it has been Bulgarian. During these 3000 years our coast has always been a very busy maritime trading center. This is the reason why such a considerable part of the ancient riches still lies on the sea bottom.

SOUTHEAST COUNCIL OF SKIN DIVING CLUBS

By **BUD COX**

P. O. Box 42543
Miami, Florida

A noted inventor, industrialist and underwater archaeology enthusiast, scored a success with his recent Miami lecture covering the exploration of the fabled city of Port Royal, Jamaica. Edwin A. Link, developer of a number of aviation training devices that bear his name narrated the 1959 National Geographic-Smithsonian-Link Expedition to the Sunken City of Port Royal, Jamaica.

Port Royal was founded by buccaneers in 1655 on a point of land that forms one edge of a beautiful bay on the tropical island of Jamaica. The town flourished with pirates and freebooters until it soon became known throughout the new world as the most sinful city in this hemisphere. The society of this lawless community was headed by the royal pirate Sir Henry Morgan. With the taming of the seas, Port Royal settled down to a more respectable existence of trade and commerce. On the fateful day of June 7, 1692, at 11:43 in the morning an earthquake split off 2/3 of the city and rolled it into the bay, taking 2,000 people, two forts, the only church and most of the commercial section into the sea where everything was immediately covered by a thick layer of slimy mud. During this earth movement the city was tilted up on one edge and rolled down into the water coming to rest in a folded mass underwater that is today 15 to 45 feet deep.

Archaeologists considered the Port Royal site to be a "closed site" because it had never been disturbed prior to the Link expedition and many undamaged artifacts were discovered in their original state. The mud that covered the city immediately after its descent into the water sealed the artifacts from the ravages of sea life; even to the extent that original wood was preserved. A kitchen, complete to pots, pans, ladles and even beef soup bones, was uncovered by the mud pumps and brought to the surface. One unexplained item recovered from the six foot mud pack is a cannon dating from the time of Columbus and possibly coming from one of his ships which was beached at Jamaica 200 years before the earthquake.

In preparing for this expedition Mrs. Link, (who authored the most informative book *Sea Diver*), the National Geographic Society and the Smithsonian Institute combed all available records only to find that the old maps were as much as 300 feet off and the charts of that day are now 18°-

There is nothing odd, therefore, that so many finds were made near Cape Maslen and that they date from so many different epochs. Once the cape was called "Cape of Storms" because of the furious storms raging around its rocks. A great many ships have been wrecked there during the centuries. Historical documents tell that

21° in error due to deviation of the magnetic north pole. The actual excavation was accomplished by civilian and US Navy divers with the aid of scuba equipment, Desco masks, mud pumps and limited use of high pressure water hose, however, the latter method was not too effective, because of the fluidity of the mud.

One of the most important artifacts recovered is a watch identified as the work of Amsterdam watchmaker Paul Floundelle in the year of 1686. The watch stopped at 11:43, presumably by the earthquake.

A complete account of this important expedition is printed in the February 1960 issue of the National Geographic Magazine.

Link announced at the lecture that next month, April, he will head an expedition to the Biblical city of Caesarea which was built by King Herod some 2,200 years before Christ and slipped into the sea in the year 300 A. D.

Hollywood Sea Skates—Reporter Bill Wosenitz—Our club is just organizing and we would like correspondence from other clubs. Write us at 40 S.E. 12 St., Dania. »

Wisconsin . . .



Eau Claire-Chippewa Falls Skin Divers Club—Reporter K. R. Moore—Our club recently went on a diving excursion through the ice at Lower Long Lake in west central Wisconsin. The ice was about eight inches thick and covered with approximately two inches of snow. The water temperature at the ten foot depth was 35 degrees F. The temperature outside was plus 20 degrees F. Since this was our first time to dive through the ice we were surprised to find the visibility so good. Even though the sky was cloudy and overcast the visibility range was 30 to 40 feet at the ten foot depth and decreasing very rapidly beyond that depth. Maximum depth of the water was 40 feet and very dark.

The primary purpose of our club is to promote safety in scuba diving. We are a very active club in both winter and summer. During the winter we keep our club active with a diving school at the high school pool. This is a two hour class, one night per week, for six weeks. We have four such sessions each winter with an enrollment from 18 to 20 in each class. The response for enrollment far exceeds our facilities for handling all of them. »

ancient Thracian pirates looted the area for a long time. They lured the ships to the cliffs and then looted them.

Many treasures from ancient times are hidden by the sea around Cape Maslen. It is a task for us, Bulgarian scuba divers, to seek for them and find them. Perhaps it will be next summer. »



Although our diving season here in Michigan is basically limited to the spring, summer and fall, we have received reports from all over the state regarding the increase in "through-the-ice-dives." Scuba diving in Michigan is becoming more and more a year-around sport. For those who have been inactive all winter, I would like to suggest a get-together around the old coffee pot, with the safety advisor present, to discuss the basic skin and scuba safety before they hit the water for the new season.

It is with deep regret that we notify the readers and Council members of the death of Frank Gobrecht. May I, on behalf of the Council members, extend my sympathy to his family. Frank was killed, and his companion seriously injured, when a compressor he was towing exploded. Here is a graphic and tragic example of the lethal power which compressed gas (air) is capable. I urge all the readers of this column to have their tanks checked regularly and handle them with great care, even when empty, for a hard rap might seriously weaken the tank when pressure is applied.

In the future, we will feature in this column a club of the month. This is not to distinguish any club or group, but merely to give information to unaffiliated divers or people interested in receiving diving instruction. We will list the clubs meeting place, day and time of the meeting, the major officers and any significant features of the club.

The Michigan Skin Diving Council's Executive Board held its semi-annual meeting January 13, 1960, at the Seaway Diving Shop, Dearborn, Michigan. There were six divers from the state nominated for Diver of the Year award—namely, Bob Stepp (1958 winner), Bob Wisner, Al Corn, Chuck McCalpin, Ruth Kass, and yours truly. Since three of the candidates were members of the board, we disqualified ourselves from the voting and were quickly dispatched to the coffee shop next door. Two and one-half hours later we were called back to the meeting only to find that the voting members wouldn't say a word about the ballot. The only comment was, "Be at the Skin Divers Ball if you want to find out who won." So I will close the column for this month with an air of suspense pending the conclusion of the Divers Ball! See you next month.

Gasco Scubaneers — Detroit — Reporter Jim Sanderson—On December 16, the Scubaneers presented two outstanding motion pictures on diving through the courtesy of the U. S. Navy. Approximately 100 divers and guests viewed "Medical Aspects of Diving" and "Shallow Water Diving." For the non-divers in the audience, the movie, "Secret Cargo" was shown.

At the last business meeting of the Scu-

aneers, it was passed that medals be awarded for the various depths reached by members. All dives to these depths are strictly supervised by the club safety director.

Viking Diving Club—Lincoln Park—Reporter Fran Kelly—The Vikings held their first ice dive for 1960 at Island Lake on January 3rd. There were 24 participating divers and a few interested spectators. A depth of 25 ft. was reached directly under the hole in the ice which we used for entry. The water was cold, visibility good—5-10 feet.

January 7, we started the training of the Explorer Boy Scout Troop of Lincoln Park for a ten day diving exhibition at the J. L. Hudson Co. in Detroit. After the exhibition we plan on the continuation of their training, so they may organize their own Boy Scout Skin Diving Explorers Group.

As reporter for the Vikings, I would like to extend my thanks to the club for being voted Viking Diver of the Year. It came as a great surprise and it is greatly appreciated.

Dolphin Divers — Detroit — Reporter Tom Sloan—The Dolphin Divers are planning an ice dive in the near future to initiate some of the novice divers in the club to this novel type of diving. The club safety officer is in strict charge at all times.

The club is well into its training course with the enlistment of 20 students being handled by seven instructors. Classes are held at Patton Park Recreation, Detroit, Michigan, every Friday night at 7:00 p.m.

Ford Sea Horses—Dearborn—Reporter Dick Metzler—As mentioned in this column last month, two of our members, Ed Murphy and Lloyd Neal found some valuable sewing machines in a quarry by Monroe, Michigan. The machines were turned in to the police and eventually returned to the company. These machines were in the water only a short time so the company was able to restore them to factory condition. For the time and energy expended by the divers each was rewarded with a check for \$100.00. May this reporter commend the company, on behalf of the divers for its generosity.

The Saginaw YMCA Underwater Explorers—Reporter Jo Anne Crampton—The December meeting of the Explorers was devoted to membership promotion. The movie, "The Blue Continent" was shown.

Our latest club project is a monthly newsletter. Explorers Kay Leppert and George Hood were the first to "break the ice" with a winter dive. Ice of about one inch thickness was broken away for the dive. It was the first ice dive for the pair.

We have had an 1100 gallon tank donated to us, so plans are now under way to convert it into an exhibition tank, which will be used at the forthcoming Sportsmen Show.

Blue Water Fathom Finders—Marysville—Reporter A. J. Foster—Our Civil Defense Diver unit, in operation for four years, has volunteer members from all parts of the county. The unit is comprised of 32 experienced divers. Services of the unit are available to all public agencies.

Once a week the members meet at the Marysville pool for training and practice for rescue missions.

In January a practice alert was held in the icy St. Clair River. The water temperature was 36 degrees with large chunks of ice drifting by the ice covered banks. Divers were to recover yellow discs from



Members of the Blue Water Fathom Finders enter the ice-choked St. Clair River in search of blue water and yellow discs during a C.D. test.

the bottom of the river. Two hours later the practice alert was complete and the divers headed home.

CENTRAL CALIFORNIA COUNCIL OF DIVING CLUBS

By Marlene Strawn
15558 Wicks Blvd.
San Leandro, Calif.



The restless relentless ocean eternally in perpetual motion must surely be the incentive of the new Cen-Cal officers, for they have plans, ideas, and activities underway already, with more to come. Among these projects is an emblem contest to be concluded March 5, with an underwater watch going to the winning entry. Entries should be mailed to Harvey Bailey, 2751 Cook Place, Hayward, Calif.

The problem of keeping the 20 to 30 spread out clubs in the council informed has been solved with a four-page bulletin published bi-monthly by secretary Archie Waterbury.

President Oscar Asturias took pride in the fact that our council was selected to host Jacques Cousteau in a recent personal appearance at the Oakland Auditorium Theatre in February. Profits benefited the Children's Hospital of San Francisco.

The January Cen-Cal meet, hosted by the congenial Aqua Lancers of Fremont, discussed President Oscar Asturias' plan of holding a tri-council caucus of the Cen-Cal, Greater Los Angeles, and San Diego Diving Councils, possibly twice a year, to pool together ideas, and inform each other of what goes on in the vast stretch of the California Coast. The first meet was to have been held in the first part of February, tentatively in Santa Barbara. Results will be presented in the next issue.

The big news of the Cen-Cal meeting was the announcement of the date of the Pacific Coast Championship, June 5. The site has not been chosen yet. East Bay Barnacles will host the March 19 meet of the Council at the Alameda Red Cross Building.

At last the Fresno Skin Divers have won their combat of trying to open certain waters for the spearing of rough fish, along with the Humbolt Divers, who have been battling to be allowed to use scuba for taking rock scallops in Humbolt and Del Norte counties.

A holiday in Mexico, beautiful underwater scenes, and a group of scientific stu-

dents and marine biologists to point out interesting facts of sea life, was Oscar Asturias description of his most wonderful vacation. Oscar and family met a group of Poly Skin Divers Club members of Cal Poly Tech, San Luis Obispo, camped at Baja, San Carlos, who served as hosts, guides, and entertainers.

The Marin Skin Divers and the Sonoma County Reef Runners held a joint competitive meet at Salt Point in November. Al Giddings, Marin, took highest aggregate with 47 lbs., George Tsegeletos, Marin, caught the largest fish, 15 lbs., and the Reef Runners won the largest team aggregate.

Gallop in' groupers! The battle is on again this year for the Ken Don Trophy between the Panther Rod and Gun Club of Oakland and the East Bay Barnacles. The Barnacles are determined to keep the trophy which was won for them last year by Harry Hague, and the Panthers are equally determined that the Barnacles will not keep the trophy.

East Bay Barnacles—San Leandro—Reporter Marlene Strawn—The East Bay Barnacles staged their fifth monthly competitive dive with ideal conditions of 30 foot visibility, calm water, sunshine, and best of all, plenty of fish in the area. Over 30 lines were taken, with two of them in the 24 lb. class speared by Bob McGuire and Henri DeLauze. DeLauze placed first with 61 lbs. aggregate catch, Harry Hague, second, with 59 lbs. and Oscar Asturias third, with 48 lbs.

Besides competitions and weekend diving trips, EBB members keep in shape by practicing one night a week in a swimming pool rented exclusively for members, families, and guests.

The December competition, held at Monterey Breakwater, gave top honors to Don Thomson, followed by Harry Hague, (consistent, isn't he?), Ralph Asturias, and Howard Strawn. Four more contests will decide the top divers to represent the club in the Cen-Cal contest. As of January, the highest scorers are Harry Hague, Howard Strawn, and Bob McGuire. All three were on the team last year and made it to the Pacific Coast Championships by placing third in the Cen-Cal Competition.

WASHINGTON COUNCIL OF SKIN DIVING CLUBS

By Richard Klein
18622 26th West
Aldewood Manor, Washington

The first meeting of the new year was January 8th in the University of Washington College of Fisheries auditorium with two members of the Washington State Department of Fisheries, Bud Jewell and Al Lasater, guests. They clarified some points of law on spearfishing and gave helpful suggestions about legislation procedures.

Dale Dean of the records committee, brought a composite of the new scrolls to show what the divers holding claim to record fish will get. Dale did an outstanding job creating this scroll.

Your reporter goofed in the January issue of "Skin Diver Magazine." I reported that as far as I knew Washington state was the only state limiting two fish per diver with a minimum of three pounds. A competitor

may spear more than two fish in a meet, but he may only turn in two fish. However, this is a Council rule not a state law. The state limit is 20 pounds plus one fish.

Bill High, our new president and a graduate of the University of Washington College of Fisheries, conducted a tour through the salt water aquarium.

An excellent film "The Breath of Life" on mouth-to-mouth breathing was shown. It gave a practical demonstration of the proper method of preparing the victim, unblocking the air passages and holding the victim's head, nose and mouth. With a cardiograph machine, a graphic picture illustrated how much more air would be forced into lungs by this method than the Holger-Neilson. It would be very worthwhile for all persons, young and old, to see this film. A life could possibly be saved by knowing how in an emergency such as drownings, suffocation or asphyxiation.

Puget Sound Mudsharks—Edmonds—Reporter Gary Crymes—The Mudsharks have been quite active the past month. We hosted our neighbor club, the Blackfish, on an outing to our wreck on the Olympic Peninsula.

Gary Keffler and Dale Dean recently returned from a weekend trip to the Northern San Juan Islands. They are both keeping extremely quiet about the whole trip. Another trip was taken the same weekend to Hoods Canal by Pat McDaniels, Ken Way, Paul Powers and Gary Crymes. Another wreck was visited with a large display of ling cod eggs with small male king guarding the eggs. This is a common sight this time of year but these eggs were unusually plentiful. This looks real good for the future.

All members are anticipating the March 20, Olympic Peninsula Championships at Port Angeles, Wash.

King County Sheriff Divers—Seattle—Reporter Bill Mertz—Members of the King County Sheriff Divers were called to Juneau, Alaska recently to raise the sunken dredge "H. W. McCURDY". The dredge was lying on the bottom at a 22 degree list, with compartments and surrounding water completely saturated with lube oil. Visibility was a maximum of 6" during the four days it took to raise the dredge from the cold Alaskan waters.

One of the divers described how it had been necessary to enter one compartment that was over half full of pure lube oil, his only comment was "It was one of the slickest jobs we've ever had."

The King County Sheriff Divers were successful in assisting the Albany, Oregon sheriff's office recently when they recovered approximately \$3,000 worth of fire arms from the Duwamish Waterway in Seattle.

LOUISIANA STATE SKIN DIVING ASSOC.

By Burnie Dodge

P. O. Box 13332
New Orleans 25, La.

Charter meeting and elections of officers for the Louisiana State Skin Diving Association was held in New Orleans on February 20. All known Louisiana diving clubs were notified.

The New Orleans scuba diving contest ended on January 3. Trophies and prizes for the winners were presented at a banquet during Captain Jacques Cousteau's visit. Trophies were awarded to first place win-

ners with second and third receiving prizes.

Winners are: jewfish, Jay Albanese, 323 lbs.; Roland Riviere, 286 lbs.; Fred Wust, 175 lbs.; cobia, Huell Scott, 56 lbs.; Roy Smith, 45 lbs.; Dan Nelson, 39 lbs.; barracuda, Roland Riviere, 38 lbs.; Huell Scott, 36 3/4 lbs.; Dick Alba, 36 lbs.; jack, crevalle, Jay Albanese, 30 lbs.; Dick Alba, 28 lbs.; Roland Riviere, 25 lbs.; red snapper, Dick Alba, 22 lbs. and 18 lbs.; Huell Scott, 16 lbs.; sheepshead, Pete Billac, 8 lbs. and 7 lbs.; Dan Nelson, 6 lbs.

The King Spearfisherman Award, on a point basis, was won by Dick Alba of the Dixie Divers with 27 points. Second place went to Roland Riviere with 25 points, third Huell Scott, 23 points, fourth place Jay Albanese, 21 points. The contest was close right to the end, with the top men looking for that one fish which could put them over the top.

Queen Spearfisherman Award was taken by Marcie Alba who won it by spearing the largest fish shot by a woman member.

Using the same point system, the winning club was the Dixie Divers with 84 points. The Bajao's received 51 points. This contest was a big factor in giving us the needed push to form a state association.

The 1960 contest has started and all area clubs are invited to participate. The Sea Tigers of Gretna have already joined and others have shown interest. Warsaw grouper and amber jack have been added to the list of prize fish.

Bajao's Skin Diving Club—New Orleans—Reporter Burnie Dodge—The year 1959 was a very active one for us. There was a diving trip just about every week, plenty of parties, a few dances and lots of fun. Our inter-club spearfishing contest ended in a blaze of glory with a banquet at La Louisiane Restaurant. Trophies were presented to Jay Albanese, 323 lb. jewfish; Dan Nelson, 38 lb. shark and 39 lb. cobia; Fred Wust, 33 lb. barracuda; Jay Albanese, 30 lb. jack crevalle; Frank Gray, 13 lb. red snapper; Pete Billac, 8 lb. sheepshead, and Dan Nelson, 55 lb. garfish.

Bajao's of the Year plaque was presented to Dan Nelson. New officers are: Jay Albanese, president; Carl Satter, vice-president; Fred Wust, treasurer, and Burnie Dodge, secretary.

Dixie Divers Club—New Orleans—Reporter Marcia Alba—Reviewing 1959, we point with pride to the wonderful showings made by the Dixie Divers in the Grand Isle Tarpon Rodeo and the New Orleans-Grand Isle Scuba Divers International Tournament, as well as the fact that the Dixie Divers won the coveted Championship of the New Orleans Scuba Diving Contest. Only loss of the year was the regional A.A.U. eliminations, won by the Bajao's Skin Diving Club of New Orleans.

Members of the Dixie Divers Club have elected Dick Alba to serve once again as club president. Jack Bleker, Lee Schultz and John Stauss will fill the vice-president, secretary and treasurer positions. J. J. Jones will serve the club as director for a two year period. Pat Lambert was elected to represent the Dixie Divers at the New Orleans-Grand Isle International Scuba Tournament meetings.

A review of the year and a preview of the 1960 season would not be complete without a BIG mention of Henry Cook. Henry is the fella who gives so much of his time and effort to direct the classes taught at the local YMCA by members of the club.

Assistant Supervisors Ed Milan and Emile Antonine along with Charlie Dimaggio, Jack Bleker, Lee Schultz and many others have assisted the club unselfishly by giving of themselves so that the Dixie Divers might derive a small regular income from the classes.

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ICey NEWS

Illinois Council of Skin and Scuba Divers Inc.

By A. L. ANDERSON
Lawen Y.M.C.A.
30 W. Chicago Ave.
Chicago 10, Ill.



Dan Wagner did it again, although ineligible for Diver of the Year, (he won this honor for 1958), this year through his unstinting efforts Dan was named the Council Member of the Year. The Miss Illini trophy went to Ann Frame, president of the Murky Lurkers and on the IC board of directors. The Diver of the Year Trophy was handed to Bob Levin of the Water Vagabonds.

A preview for the IC dinner-dance was staged in the studios of WGN-TV on January 16, when all the IC Board directors and members of various clubs, totaling some 45 party-ers, danced on Jack Hilton's "Spin-Time" show. Don Spiering of the Chicago Sub-Mariners proved one, at least he, could dance with fins on, and before the TV cameras at that!

The Chicago Sub-Mariners—By Clarence Narbut—Now that the club is the proud owner of a 24-foot luxury craft, to be used for exploration of Lake Michigan depths by our members, most of our spare time and meetings are taken up discussing the whys and wherefores of boat ownership.

So far in the new year we have had three outings, and for those of you who are not diving now, I'll admit the water is c-o-l-d. In January, Racine Quarry's depths provided workshop for Don Spiering's experiments of a special project he still has under wraps. The quarry also acted as both top-side and UW stage settings for the lens of Vern Pedersen's new 16mm camera shooting its first 100 feet of film, all in beautiful Kodachrome. Vern and Mike Lehor had a January holiday week in the Bahamas.

Chicago Frogmen—by Bob Bingham—On December 27, Al O'Neil, Jim O'Brien, Wayne Steves and Bob Bingham parted Lake Geneva's pan ice, scorned five inches of snow and dense fog to have a belated Christmas dive.

Chicago Frogmen are right now setting wheels in motion for recovery of the Material Service wreck. Contracts are being made with the owners, the U.S. Army Corps of Engineers, and many companies whose products might be used in our projected attempt. By March the various wide-flung correspondence should have brought a decent return, showing a clearer course. Public relations will be set up and a call for divers sent out.

Scubateers—by Dan Wagner—According to SDM's January issue, it appears that the Motorola Spear and Fin Club suspects itself to be the first industrial club to have been formed in the midwest. Just for the record, the first industrial club in the midwest is the still active Ford Sea Horses from the Detroit Automobile Plant. The first industrial club in Illinois was the Ford Snappers of Ford Motor Company's Aircraft Engine Division. The Snappers disbanded in 1957 to reorganize as the Scubateers, well-known Harvey group.

Harvey Orcas—by Scottie Ricker—We are proud to announce that ours is the first Illinois club to affiliate itself with the Illinois Federation of Sportsmen's Clubs. New

officers are: president, Bob Henn; vice-president, Claude Phillips; secretary-treasurer, Henry Jorgenson. The new board of directors include Scottie Ricker, Larry Nelson, Gene Anderson and Nort Gurley.

News flash—For the second year in a row now, we've topped first place in the Indoor Skin and Scuba Diving Meet of the Metropolitan Chicago YMCA.

Sea Clamps—by Kenneth Kundert—All six of us reporting! We wish to welcome our new members, right in print. Namely, the new divers are Eddie and Howard Anton, and Charlie Reberski. John Kubil, our president, recently returned from a sojourn at Miami Beach where he'd gone to pile up some tropical skin and scuba hours. He claimed nice diving, considering that it rained every day. John and Keith Packer have been logging their diving hours together, every Sunday since last May for a bundle of weathering and experience we all hope to catch up with.

Compleat Goggles—by Fred Seil—Our December meeting featured annual elections. New officers are: Greg Gerrard, president; Robert Blanc, vice-president; Dick Gurske, secretary; Robert Ploense, treasurer; and Fred Seil, corresponding secretary.

Vern Pedersen made the presentation of the Compleat Goggler of the Year award to Bob Ploense at our December meeting.

Metropolitan Chicago YMCA Skin and Scuba Diving Council—This Council within a Council is now in its third year of operations, currently comprises the clubs of ten Chicago Y's, with two more groups in the formative stage. In its third annual indoor diving meet in the pool of Park Ridge YMCA, on January 10, a field of eight clubs was topped by the Harvey Orcas. Second place was taken by the Park Ridge Tritons, and the Atlantis Divers from West Suburban took third place. The photographic banquet is scheduled for West Suburban YMCA on April 24.

Murky Lurkers—by Bob Grassl—Note our new name, changed from the Motorola Spear and Fin Club. In our annual election we voted Ann Frame, president; Tony Viarniak, veep; Roland Ullrich, treasurer; and Bob Grassl (me!), secretary.

Our annual banquet is set for April 30. We hope to have Bill Barada on hand. On January 10, we had a most enjoyable dive at Lake Geneva. Abiding by the game laws, Neil Birdsall and I did some UW fishing with rod and reel, caught ourselves a half-dozen bull heads. Soaked in an emergency lake operation in her street clothes, Ann Frame was a spectacle running around in blue leotards, red car coat and boots.

Water Vagabonds—by Carl Spataro—We chose a nice cold Sunday in January to test out our new Voit porta-sub, owned jointly by my brother Gabe, Bob Levin and myself. Up at Lake Geneva in the Vicinity of Fontana, John Krenter, Bob and I took turns riding the sub down to a maximum of 30-35 feet. We anticipate innumerable uses for the sub, and you can bet Bob Levin is dreaming of having it out on his URT operations.

North Shore Deep Water Divers—by Lillian Ramsden—On December 4, 1959, Bob McGowan, Dennis Liapes and four other divers attempted to break the UW endurance record at Emerson YMCA in Evanston. Although there was true inter-club assistance, local circumstances forced our boys to leave the water a few hours after they had entered. More preparation and planning will break the record on the next try.

By CA

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NORTHEAST NOTES

By CAL CALHOUN

Northeast Council
of Skin Diving Clubs
P. O. Box 225
Fairhaven, Mass.



I must correct something quickly. Last month I told you that we had chartered a plane to Houston, Texas, for the 1960 Convention, a 100 passenger plane at a round-trip rate of \$73.00 per passenger. I really smashed it . . . what I meant was, a 73 passenger plane for \$100.00 per passenger. This is still a good deal.

At the January 3, 1960, delegates meeting of the Northeast Council held at Kittery Point, Maine, a complete new set of by-laws was drafted, to be ratified at the next meeting. The President requested the following points to be adopted by the Council; the inception of State Congresses within the structure of the Northeast Council, to better resolve domestic legislative and 'home town' sports promotion problems; the abolishment of the area director system (one man in contact with all clubs in a specific geographical area . . . very unwieldy and ineffectual), this to be replaced by liaison operations carried out by member-club representatives . . . armed with the Northeast Council's brochure; the inception of a voting system based on a true representative basis, that is, a club with ten paid-up members be entitled to ten votes (provided ten representatives of that particular club, or bonafide proxies, are in attendance) on any subject before the general body at any meeting of the Corporation. The State Congresses (example . . . The Massachusetts Congress of the Northeast Council of Skin Diving Clubs, Inc.) should hold 'home-town' meetings once a month . . . every third month, the Northeast Council (all Congresses) should hold general meetings. Each Congress should elect two Congressional Governors to represent it at Board of Governors meetings . . . these should be held at

The Chi Aquas—Chicago—Reporter Glen Teason—We have a twenty-six foot inboard "Gray Marine" powered cruiser, and two fourteen foot speedboats. We have our own air station which consists of six three hundred cubic foot tanks, and an "Ingersoll-Rand" 3321 compressor which we are reconditioning.

We have dived at Racine, Wisconsin, Coal City strip mines, Lake Michigan, and have recovered several potholes. Although we are quite a new club, we have scored excellently in our one and only entrance at an I. C. S. S. D. Treasure Hunt, taking first prize in the Treasure Hunt, and six other prizes for our eight divers.

Illinois Valley Scuba Divers—Canton—Reporter Lucille Henderson—In January, our club met and elected officers for the year 1960 as follows: president, Paul Day; vice-president, Ronald Henderson; secretary, Naomi Taylor; treasurer, Richard Moore, and reporter, Lucille Henderson. Anyone interested in the Canton area may call Canton 4250R or Canton 1193.

the call of the President. The Board of Governors should be made up of, the Corporation Officers, appointed Governors, and Congressional Governors. These 'revisions', the President feels, will set the foundation of the states represented and will insure the EXTRA STRENGTH which a multi-state organization affords.

Divers and instructors desiring certification through the Northeast Council should contact John K. Whelan, Diver and Instructor Certification Director, 24 Seabee St., Bedford, New Hampshire, phone NATIONAL 5-8430.

I was more than pleased to learn that the Underwater Society of America's pending list no longer includes the Northeast Council. I want to take the space required to thank the persons whose efforts finally resolved this misunderstanding, particularly our very competent Judge Advocate, Mr. Dort S. Bigg.

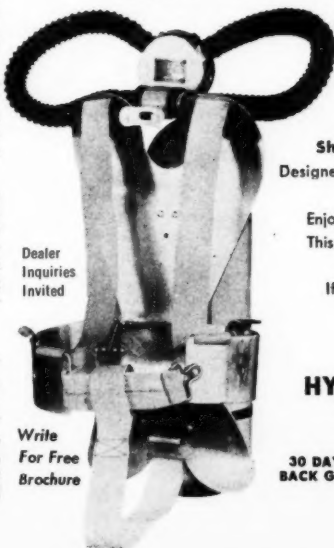
I had the pleasure of meeting with the flying club of Otis Air Force Base, The Otis Fathomeers, on January 4, 1960. Besides being well received we were well catered to after the meeting.

As President of the Northeast Council of Skin Diving Clubs, Inc. I feel it is my duty to visit with as many clubs as possible . . . all I need is an invitation, as before, preferably on a Friday or Saturday night.

What ever became of Balboa Long? >>>

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By JOHN J. McANIFF
359 Walcott Ave.
Middletown, R.I.

RHODE ISLAND COUNCIL REPORTS

All the clubs of the Rhode Island Council are looking forward to participation in the First Annual Sportsmen's Show to be held at Rhodes on the Pawtuxet, Cranston, R. I., March 17 thru 20. For the first time in recent sports history nearly all the sports clubs of the state are rallying behind the Federated Sports Clubs of Rhode Island to sponsor this tremendous undertaking. Advance ticket sales seem to indicate that attendance will surpass all expectations and may reach as high as 50,000 during the four-day show. The R. I. Council, with the cooperation of its member clubs will staff a booth to attract membership to the Council and the Underwater Society of America. In addition it is expected that the clubs will also cooperate in a demonstration of underwater diving with the use of a huge glass walled tank. Individual divers will carry out an almost continuous show rotating the amount of time in the tank with members of all the clubs of the Council. It is also probable that a demonstration of line fisherman's strength matched against a skin diver's swimming power will be used again if an indoor pool is set up.

The president of the Rhode Island Underwater Spearfishing Club, Gil Simmons was recently called out to assist in retrieving an automobile from the bottom of a local river after its occupants had miraculously escaped. In freezing temperatures, Gil broke through the glaze of ice, located the car

and fastened the tow hook. In minutes the auto which had almost been the grave of four young men was brought to the surface.

At a recent meeting held at New Haven, Connecticut, four Councils discussed the problems of little Rhode Island among other items and came to the conclusion that each of the Councils in the area would adopt a policy of notifying the neighbor Council whenever it was known that an activity was to take place in another's territory. Also discussed was the forthcoming competitive season. No solid action could be taken along this line until definite decisions are made on a national level.

Most recent in the newsprint of Rhode Island papers is a renewed interest in some sort of granite structure just off Brenton Reef at the mouth of Narragansett Bay. Varying descriptions have boiled down to a neatly arranged pile of quarry cut granite about thirty feet high in about ninety feet of water and about twenty-five feet wide. It is alleged to have something resembling a hatch at the top of the pile and has aroused considerable interest. One source has advanced the theory that it may be a structure built by men on land over eight hundred years ago and now deeply submerged by the recession of land into the ocean. Other theories advanced have seemed more probable such as the possibility of a ship load of granite that had sunk during the period about 100 years ago when many of Newport's famous mansions were being built. By this time the wooden sides of the ship would have rotted completely away and the cargo of granite would be standing alone on the bottom of the sea to tantalize the imagination of this generation. A number of different groups have indicated an interest and expect to dive on the site as soon as the weather abates.

With the best diving season of the year almost upon us it is time again to issue the usual word to the wise. To all our fellow divers everywhere, the Rhode Island Council extends the reminder to never underestimate safety, use the Divers Flag and be as courteous to others as you would have them be to you.

B. C. Council Reporting

By Ken Main &
Ken O'Neil

P. O. Box 2248
Vancouver, B. C., Canada

This is the first report from the British Columbia Council of Divers. Our council originated a little more than two years ago, but response was slight and the organization soon died. Early last year it was reactivated because of a pressing need, for an organized representative body. Although we have been in existence but a short time and still suffer from growing pains, for our growth has been quite substantial, we have accomplished far more than could possibly have been foreseen earlier. For instance:—

The council was instrumental in the final acceptance and recognition by the Department of Transport of the Divers Flag in Canada.

The educational committee, working in conjunction with the University of British Columbia, has revised and improved all

training courses and procedures, both theoretical and practical, has graduated its first class of instructors and issued licenses, and will soon publish its new courses which will be made available to all clubs and individual divers in the province.

A records committee has recently been formed for the purpose of establishing official recognition of all records pertaining to diving activities in B.C. The committee's first act will be the determining of procedure for claiming records on fish, shellfish, and octopi.

On the 20th of December our council in co-operation with the Crippled Children's Society sponsored a charity treasure hunt in the Greater Vancouver area.

It was an overwhelming success. We wish to make an appeal to all diving clubs in our province which are not yet members of the council—particularly those in the interior. Please!! The council needs your support if it is to continue working for you. We want to hear from you and learn of your opinions, ideas and problems. This is your council, it needs your support.

At the present time the council is looking into the possibility of purchasing a recompression chamber from the Provincial Highways Department.

The minutes of every council meeting are published by the organization and are available to any B.C. club which will mail a request to the above address. We include with these minutes, club news and coming events from all over the province.



C. K. '4104 33rd
Arlington

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ATLANTIC SKIN DIVING COUNCIL

By
C. K. "Rusty" Sherrill
4104 33rd Street South
Arlington 6, Virginia

In an effort to better serve and to offer greater activity to the affiliated clubs Shirley DeCarter of the Fathoms Skin Diving Club, Fayetteville, North Carolina, was appointed as the Southern Regional Director, and David N. May of the New Castle Neptunes, New Castle, Pennsylvania, was appointed as the Western Regional Director. In addition John Hauprich of the Maryland Underwater Explorers was appointed Director of Competitive Spearfishing, and John C. Webb, attorney and a member of the Pioneer Skin Diving Club, was appointed as Legal Officer.

At the last Board meeting Council members submitted their designs for the Council emblem. The delegates selected four which will be submitted to the membership for a final vote. The entries selected were submitted by Bob Langston of the Aquanauts, Melba Seron of the Atlantis Rangers, John Stewart of the Pioneer Skin Diving Club and Shirley DeCarter of the Fathoms Skin Diving Club.

The Council has drawn up a program of training designed to increase diving activity. Eighteen members of the Council graduated from an Advanced Red Cross First Aid Course and 32 members are now taking the Senior Life Saving Course. These will be followed by a special training program designed to increase the efficiency of



Jack Chappel of the Annandale Skin Diving Club demonstrates artificial respiration for the students at the recent advanced first aid course taken by members of the Atlantic Council. Photo taken by Rusty Sherrill.

our divers. Some of the special items which will be covered in this course will be hand signals, Navy line signals, cave diving, rope search patterns and night diving.

Unaffiliated clubs and individual divers reading this column are cordially invited to participate in the Council activities for 1960. For a complete schedule of events just drop a post card to the Council.

An outstanding job is being done to promote good will between line fishermen and spearfishermen by the Maryland Underwater Explorers, P.O. Box 721, Rockville, Maryland. This club, by participating in fish conservation projects and assisting state biologists in conducting a fish census of Deep Creek Maryland, have done much to improve the relations between skin divers and line fishermen.

The Pioneer Skin Diving Club held their annual meeting for the election of officers. Van Buskirk was elected as president, John Stewart, vice-president; Rusty Sherrill,

secretary and treasurer; Fred White, safety officer, and Randy Bowyer, club instructor. Milton Greenbaum was reappointed as recruiting officer and Alison Palmer returned as membership officer.

Jim Robinson of the NRL Skin Diving Club and director of the club relation committee, has announced that the Council now owns four 16mm sound underwater movies and two complete slide shows which are available to the affiliated clubs for showing at their monthly meetings. Write direct to Jim Robinson at the Council address.

The Annandale Skin Diving Club has announced the formation of a competitive tournament team. The governing committee composed of Bob Coar, Bill Beeton and Jerry Parsons have already lined up an impressive workout schedule for team members.

The NSA Academy of Skin Diving recently elected Dick Seron as Dean, Bob Harmon as Assistant Dean and Bill Martin as Registrar. Plans were announced to display skin diving gear and pictures in a booth located on the main foyer at the National Security Agency at Ft. George G. Meade, Maryland. Members are looking forward to a scheduled trip to a Navy Diving School in Washington, D.C. which is set for the middle of next month.

The Fathoms Skin Diving Club, Fayetteville, North Carolina, were very much impressed with the film "Voices of the Deep" which was presented at their last meeting. This film which concerns scientific underwater experiments to determine if fish "talk" to each other, and also to learn how well man could hear these "conversations." By using a hydro-phone, the scientists found a completely new and exciting side of the underwater world which was far from being silent.

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Philadelphia Depth Charger Spearfishing trophy winners are (top row, left to right): 2nd place Flounder, Bud Hess; Achievement Award, Jay McKinley; 1st place Flounder and 2nd place miscellaneous, Jack Drain; 1st place Tautog, Bill Richards; 2nd place Tautog, Dick Zindell; Achievement Award, Dave Slith; Achievement Award, Dan Fisher. (Bottom row): 1st place miscellaneous, Pete Clark; Diver of the Year, Stan Kwicien; Achievement Award, Bill Kootz; Achievement Award, Bob Border.



By: Joe Birkbeck

412 Harrington Road
Haverlown, Pennsylvania

The Council activity is centered around plans for a convention to be held in early spring. Plans for coming spring and summer activities will be formulated and the Diver of the Year award will be presented for the first time. We sincerely hope that the members from the Erie and Pittsburgh areas will make a particular effort to attend.

The most frequent question asked by prospective council members is, "What will the council do for us?" Right now this question is being answered concretely. This past year several problems developed along the New Jersey coast, one of which could well develop into the elimination of access to the shore waters for divers. The Council is now actively cooperating with the North Jersey Council in solving this problem. We do need the backing of all clubs and divers in and around New Jersey. All those interested in helping, please contact MAUC South Jersey Regional Chairman, Robert Border, 436 Kings St., Woodbury, N. J.

Philadelphia Depth Chargers—Bill Richards—The Philadelphia Depth Chargers held their semi-annual banquet to award the annual spearfishing trophies. The big event of the evening was a surprise trophy to be awarded to the diver of the year. The honor was bestowed upon Stan Kwicien, one of our most active club members. He is a member of the Safety Committee, Chairman of the Equipment Committee, scuba instructor and is always ready to give a helping hand.

The new officers for 1960 are: William

Maley, president; W. Jay McKinley, vice-president; James Brouse, secretary, and Chester Haven, treasurer.

Delaware Underwater Swim Club—Douglas Ruthardt—The first weeks of 1960 were busy ones for our group, lectures, and pool training sessions for new members, campaigning for elections and pioneer work on our first indoor spearfishing contest. Vacations have claimed several of our divers recently—Joe Goodman and his wife to the Florida Keys where he expects to rendezvous with Tom Watson and his mate. Dave Ray, Eddie Miller, and John Dorsey have just returned from sunny Acapulco, Mexico, after four days of "Underwater Heaven". They reported 50 feet visibility, many fish, warm water and trouble with boat captains. The trio made one trip down to 120 feet. Their only regret was four very short days of diving, eight long days of driving. Next time it's like Fly, Man!

Sub-Committee—Washington, D. C.—Jim Young—The Sub-Committee has settled down to a winter of diver training and instructor qualification.

Divers note: Air may be obtained at "Perry's Place," drive-in restaurant, Kill Devil Hills, N. C.

The Sub-Committee is currently nearing completion of its first YWCA standard diver training course with another course planned for February '60.

Georgia . . .

Aqua Gators—Valdosta—Reporter Nels J. Nelson—Four members of the Moody AFB Aqua Gators recovered the body of a small girl from a farm pond near Morven. The recovery was made in five minutes from a depth of seven feet. Divers probing the icy pond were A-1c Robert Small, S/Sgt. John Tyson, A-2c Alan Corbin and Nels Nelson as safety man and relief diver.

North Carolina . . .

Durham Skin Divers Association—Reporter Charles Johnson—Organization of our group has just been completed and our officers are N. F. Carden, president; Don Agner, vice-president, and Charles Johnson, secretary-treasurer.



The outcome of the December elections promises an outstanding year for the Empire State Underwater Council. President Don Marchese was re-elected by almost ten to one vote. Al Boehm was named vice-president and Charlie Dunn and Murray Seliger were elected secretary and treasurer respectively.

Council members participated at the National Swimming Pool Exposition held recently at New York City's Coliseum—nine divers put on three exhibitions over the big weekend.

Current plans for the expansion of Council activities call for the formation of a new aqua show committee to investigate the possibilities of participating in such programs.

Long Island Divers Association—Freeport—Reporter Pete Gellweiler—In recent weeks many members have been cooperating with the North Shore Academy of Diving Science and Research in project "Attach" phase #2, an underwater medical research program.

We have just finished a successful year with an assist to Robert Ingolia in his record breaking underwater endurance time of 85 hours and 10 minutes. Winter plans include an ice dive to be set by Kurt Morrack and the dive planning committee. An outstanding sound film will be shown at our next meeting.

New officers are: John Mogavero, president; Robert Clarke, vice-president; Ilse Morrack, secretary; Elaine Franza, treasurer. Committee chairmen are Al Boehm, safety and education; John Wilson, entertainment; Kurt Morrack, dive planning; Al Briskie, membership, and Pete Gellweiler, publicity.

Eastern Aquarians Scuba Team—Brooklyn—Reporter Ann Slattery—We are a comparatively new organization consisting only of members who have completed the course of instruction given at the Eastern Seaboard Diving School by Sam Pobat. Activities continue all year with weekly pool dives in the winter, although a few of our members have braved the ice this month.

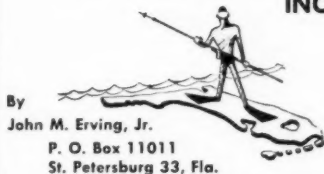
South Shore Sea Kings—Brooklyn—Reporter Ron Terceira—The South Shore Sea Kings had their first annual New Year's Day Beach Party and Crab Grab. Some members of the American Porpoise Club were also present. First prize was won by Whitey Budnick of the A. P. C. for the most crabs grabbed. The prize? Why all the crabs he could eat, of course!

Golden Sharks, Inc.—West Hempstead—Reporter S. Binder—This is a newly formed club of 32 members who primarily dive on wrecks in local waters.

In December a group of divers made a dive in Lake Ronkonkoma, believed bottomless with underground rivers running to Connecticut and Long Island Sound waters. We sounded the lake until we found the water getting deeper and then started our dive. Surface temperature of the water

was 42 degrees with eight foot visibility. At the 40 foot mark visibility was nil and the water temperature was 28 degrees. Upon reaching the bottom we searched for 20 minutes, but found no underwater outlets or rivers.

FLORIDA SKIN DIVERS ASSOC., INC.



First, may we say, that it is indeed a pleasure to return once again to the pages of "Skin Diver Magazine" with news and views from the Florida Skin Divers Association.

At the regular November meeting of the FSDA held in Tampa, it was voted nearly unanimously that the FSDA propose spearfishing licenses and unofficial daily bag limits for skin divers using the coastal waters of the state. Needless to say, this has brought both flowery praise and needle sharp scorn to the association. It was, therefore, determined by the officers that a final decision be withheld until the February meeting which would allow ample time for a complete airing of all opinions.

It appears that the divers of the state are opposed to a special spearfishing license by a 3-2 majority. The straw ballot poll further indicates that the divers favor some sort of daily bag limit, the exact quantity to be determined at the Orlando meeting.

Regarding the licenses, it was proposed that it be a statewide license which might well over-rule the local county restrictions. FSDA felt that it would be very difficult for any county to justify a ban and not permit a licensed diver from operating in their waters. Too, it would give the state a certain authority to suspend the license of any diver caught violating the laws now in effect on sport fishing in general.

On the bag limits, one major complaint against divers here has been that they (1) denude the ocean of fish; (2) take far more than their share; and (3) that they are depleting the fish population so rapidly that the commercial and charter fishing interests will soon be out of work. Obviously nothing could be more incorrect, but that is the way they feel, anyway.

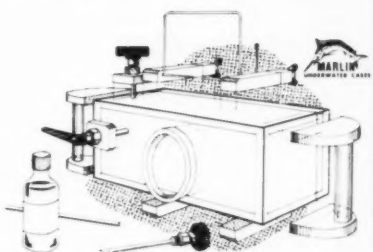
FSDA feels that by posting unofficial bag limits throughout the state, that few of the chartermen and hook-and-liners can continue to throw stones at us, particularly when our average day's catch is far below theirs.

Why do we say it may have significant effects on diving groups in other parts of the country? If either or both of these proposals are placed in effect, it will mark the first—and precedent setting—time that divers have suggested a major piece of legislation to curtail their own activities. It will undoubtedly receive the attention of other coastal states. At any rate, the final decisions on what action will be taken were to be made on February 7.

Divers anticipating a vacation trip to Florida may secure local diving information on all sections of Florida by sending a self-addressed stamped envelope to FSDA—P.O. Box 11011, St. Petersburg 33, Florida.



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Complete kit, partially assembled (We've done the hard part), with 3 brass controls, & cement, only... **\$37.50**

Technical specifications: Inside dimensions: 6" x 4" x 4 1/2" High. 3/8" plexiglass body, solid brass packing glands, "O" ring sealed, and 1/4" x 5" control shafts.

OTHER SPECIALTY ITEMS . . .

POWER MUZZLE



Especially recommended for competition use. Converts your Arbalet type spear gun to an efficient, variable power weapon that can be used on any type of fish. Tremendous saving on replacement rubbers. Muzzle, complete with two slings... **\$7.95**



CAMERA CONTROLS

Solid brass packing glands that can be used as extra controls on existing cases. Control shafts are 1/4" x 5", "O" ring sealed. State knob or lever type, complete set for only... **\$3.95**

Underwater Specialties Co.

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(Florida residents add 3% tax).
P. O. BOX 13411 TAMPA, FLA.

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Walter Daspit, La., Licensed diver and director of Tidelands.

now accepting
Applications for March and June Classes

Learn Marine Diving in the heart of the offshore oil industry, where diving is a common place daily activity, not just something that you read about or see on television.

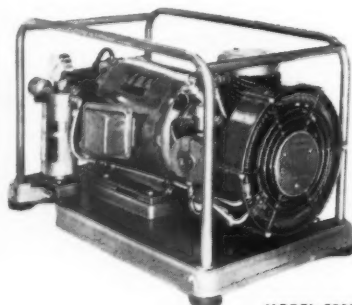
Tidelands specializes in the techniques and procedures used in laying pipeline, construction of platforms and repair connected with the offshore oil fields. In addition underwater welding, burning, demolition, salvage, etc. are taught.

Act now as only a limited number of students can be accepted.

Write for free details and application blank to:

**Tidelands School
of
Marine Diving**

Walter Daspit, diver
P. O. Box 63, Grand Isle, La.



MODEL 3800105 — 3 H.P., 220 volt, single phase,
60 cycle electric motor. Adjustable pressure switch.
Motor starter. Capacity 4 CFM with pressures
up to 3000 PSI. Weight approximately 120 lbs.

features single phase motor for simplified installation

Winning highest praises from skin divers everywhere is the new line of Cornelius 380 Series air compressors. Now, an electric model with an extremely dependable SINGLE PHASE motor has been added to the series. Here is a large capacity compressor that can be used with commonly available electrical current. The single phase model will fill a 38 cu. ft. air tank with pure, breathing quality air in less than 10 minutes and will fill a 70 cu. ft. tank

in less than 18 minutes. Be sure you and your skin diving club members have the protection and confidence inspired by an abundance of pure, fresh compressed air. Write today for complete information about Model 3800105 and other 380 Series compressors.

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Cornelius
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NEW
JERSEY
COUNCIL
OF
DIVING
CLUBS

Central Branch YMCA
125 Main Street
East Orange, N. J.



By Bill Skripko
22 Roosevelt Street
Laurence Harbor, N. J.

This one's being written in between meetings, hence, no council news. Clubs are going over the proposed legislation, however, and from what I understand the next meeting should be very productive. One correction should be made—Chester Apy has not been made council lawyer, for NJCDC as reported in last report.

State News

Not content with the decision handed down by the township committee last August, the die-hard element of the Shore Surf Fisherman's Association in Point Pleasant has apparently been looking for a knight in shining armor to lead their new crusade against the "skin men." They quickly grabbed up an article written by a New York columnist (pro fisherman natch) reproduced it, and distributed it around the area. The article is loaded with little dittys such as "there is no question now that a man underwater with a spear is going to get considerably more fish than a boat trolling a line." Sir Lancelot seems to be riding back in the dark ages. All seriousness aside though, I would be inclined to agree with the author, since a contest between a man and a boat is really no contest at all.

Civil Defense

Although the NJC of DC recognizes the need for civil defense underwater units, it does not feel prepared to take part in the organizing or governing of these units, and probably could not if it wanted. Civil Defense is a division of the State Department of Defense, and as such, has any number of qualified personnel on its staff to handle the job. However, in assisting these individual units with news of sister units and their operations, we hope that in some way we are forwarding the cause of civil defense. Some of the member clubs in the council are organized Civil Defense Underwater Units.

For those of you keeping a chart of these units in the state, the next one to come out onto the map is the "Union County Diving Association", an underwater recovery unit attached to the Elizabeth Civil Defense.

This unit is composed of 23 members including one female. They meet every other Monday at Linden Jr. High School for a business meeting, and every last Saturday of the month at the Elizabeth YMCA for pool sessions. All applicants must be experienced divers (scuba) and must qualify to that before acceptance. The unit is open only to Union County residents. Interested residents can contact the group by writing Dr. Harry Paskow, Director C.D., City Hall, Elizabeth . . . however . . . what might well become an all important document for both sides in future debate on C.D. was forwarded to me by Bill Higbee. Bill is attempting to organize a unit in Wildwood Crest. He approached the local C.D. chief Albert Stokes, who in turn received a reply from Thomas Dignan, Acting State Director of Civil Defense and Disaster Control. The text of that letter is as follows:

SKIN DIVER—March 1960

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"... this office does not encourage the formation of underwater units in Civil Defense. It is our position that an underwater unit is not a rescue unit as such, but is actually one of recovery; its main functions being salvage, recovery of evidence, bodies and identification, which is more in the line of duty of the regular police service rather than Civil Defense units. Furthermore, underwater diving requires rigid medical and physical examinations and training, due to the hazardous work and the dangers involved.

This office was instrumental in having 40 State Police officers and troopers trained by the United States Navy three years ago. Their services are always available for use throughout the state in any type of emergency. If Wildwood needs such a unit, I recommend that it become a part of the regular police department."

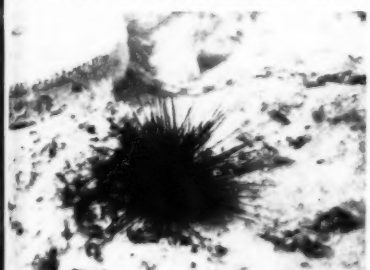
Now THERE'S a good bone for us to chew on 'till next month.

Jersey Coast Frogmen—Union Beach—Reporter Bob Rielly—The annual election meeting was held at Crystal's Restaurant in Perth Amboy. New officers for 1960 are: president, Bill Sebeste; vice-president, Butch Szeztaye; secretary, Bob Rielly, and treasurer, Louise Delile.

The board of directors include the new officers plus Harry Bolton, Rick Delile, Bill Reynolds. Please address correspondence to Bill Sebeste, 14 Dibling St., Union Beach, N. J.

Ohio . . .

Jupiter Skin Diving Club—Dayton—Reporter Tim Koverman—We have just returned from the finest diving trip our club has ever made. This was at Nassau, in the Bahamas. A bright sun greeted us every morning and the water was always gin clear. Even in the harbor of Nassau the water is



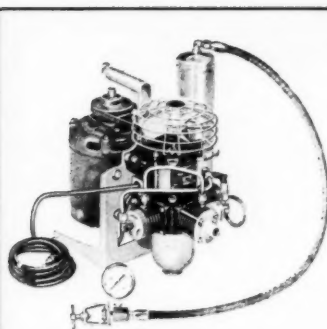
Jupiter photo of a sea urchin in the harbor at Nassau. Miranda 35mm camera was used with Adox KB-14 film, settings were 1/125 sec. at f:4.

always so clear that the bottom can be clearly seen.

If any other clubs or divers are planning a trip to the Bahamas I would suggest they stop at Nassau and look up Bruce Parker. He took us out in his forty-seven foot specially equipped diving boat. The rear of the boat has a special diving platform that makes boarding with full equipment easy. We dropped anchor on a tropical reef, alive with colorful coral and strange fish. On the edge of the reef lies a sunken ship that is very interesting to explore. Parker can supply the complete outfit from fins to spear.

Toledo Sub-Mariners—Reporter Ted Nissen—During the absence of Joe Zeiler, who is unlucky enough to be skin diving in Mexico and the Hawaiian Islands this winter, yours truly will attempt to report on the activities of the Toledo Sub-Mariners.

Toledo Sub-Mariners held their annual Christmas party in the Central Y.M.C.A. banquet room. The dinner was followed by presentation of trophies and plaques. This year's awards were won by: Jack Jones, Don Lea, Jr., Gary Schausten, Lee Conant, Lucille Hecht.



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(Surplus)

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STOCK SIZES 98.50

CUSTOM FIT, ADD 7.50

Commercial weight grade
two-ply natural gum rubber.

Front or back entry.

Relief tunnel, optional.

Knee patches, optional.

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Hood and tunnels 1/32" thickness.

Main dress body 1/16" thickness.

Factory repair service, all suits, time plus material basis.



Gold Suckers



At production prices. Featuring all Name Brands in Component Accessories.



3 inch Machine

Includes 3 inch diameter Sucker, 6 ft. suction hose, 25 ft. High Pressure hose, Jabsco pump and Briggs & Stratton aluminum 3 H.P. motor, complete \$179.50

4 inch Machine

Includes 4 inch diameter Sucker, 6 ft. Suction hose, 30 ft. High Pressure hose, Jabsco pump and Briggs & Stratton aluminum motor \$199.50

Super 4 inch Machine

Same as Regular but has clutch and has increased Motor Leverage with 25% more Jet Thrust, to be used for moving overburden \$224.50

Hookah Compressors

Johnson Air Compressor Kits for the above model attached, or ready to bolt on . . . \$ 80.00

6 inch One Man Dredge

Includes 6 inch diameter Sucker, 30 ft. of 1 1/2 inch High Pressure hose, also a 2 inch Sucker with 30 ft. of 1 inch High Pressure hose, 6 ft. Suction hose, Jabsco pump, with clutch, Briggs & Stratton Motor, Johnson Air Compressor \$495.00

Lightweight Portable Dredges

Sold in most leading Skin Diving Shops in California, also Dealers in other States. For additional information; dealers nearest you and a copy of our NEW CATALOG write:

Manufactured and Distributed by the

KEENE ENGINEERING CO.

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SUN VALLEY, CALIFORNIA

Make Your Own Wet Suits from Divemaster's Foam Neoprene Wet Suit Materials

NEOPRENE SHEETS

Black Sheets 40" x 120" each
No. 325F 1/4" Skin 2 sides...\$35.00
345 3/16" Skin 2 sides... 32.50
355F 3/16" Skin 1 side... 29.50
365F 1/8" Skin 1 side... 17.50

Yellow Sheets 40" x 120" each
325YF 1/4" Skin 2 sides...\$45.00
345YF 3/16" Skin 2 sides... 37.50
355YF 3/16" Skin 1 side... 32.50
365YF 1/8" Skin 1 side... 20.50

NEOPRENE SEAM STRIPPING

Yellow or Black Foam
Neoprene Seam Stripping
1/16" Thick—3/4" Wide

No. per ft.
326F Black Stripping...\$.10
326YF Yellow Stripping... .12

ZIPPERS

Divemaster Heavy Duty Brass Zip-
pers, Open Both Ends. Zippers can
be shortened to any length.

Shirt Zipper each
350F Black, 27 Inch...\$3.95
350YF Yellow, 27 Inch... 3.95

**DIVEMASTER HEAVY DUTY BRASS
ZIPPERS, OPEN ONE END ONLY**

Leg Zippers each
No. 351F Black, 10".....\$1.25
351YF Yellow, 10"..... 1.25

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352F Black, 6"..... 1.25
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PRE-CUT AQUA THERMO KITS AND CUSTOM DELUXE "400" WET SUITS

"WORLD'S MOST COMPLETE LINE OF EQUIPMENT"

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1/8" Foam Neoprene Rubber,
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3" x 40"

No. each
375F Black Strip.....\$1.00
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1/8" Foam Neoprene Rubber,
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NEOPRENE CEMENT

Yellow and Black Foam
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No. each
327F 1/2 pint Black.....\$1.50

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330F 1 gallon Black.....12.95

327YF 1/2 pint Yellow..... 2.25

328YF 1 pint Yellow..... 3.50

329YF 1 quart Yellow..... 5.30

330YF 1 gallon Yellow.....16.15

DIVEMASTER'S SPECIAL SOLVENT

For Thinning Cement and
Cleaning Seams

No. each
335F 4 oz. Solvent.....\$1.00

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338F 1 quart Solvent..... 4.50

339F 1 gallon Solvent.....13.50



SNAP FASTENERS

Heavy Duty Polished Chrome Plated
Brass Snaps Completely Assem-
bled. No tools needed. Glue only.

395F Crotch Snap Fastener Assem-
bly, Including Back and

Front 1/8" Flap with Rubber-
ized Grommets and Snaps

Installed1.50 ea.

396F Neck Flap Fastener Assem-
bly Including Shirt and

Flap Snaps Installed in 1/8"

Rubber75 ea.

397F Snap Fastener Including

Snaps and Rubber Grom-
mets50 ea.

MEL'S UNDERWATER GOLD SEPARATOR

Completely new principle in gold dredging. Entire opera-
tion including sluicing done underwater. The unit composed
of gasoline engine, pump, 35 ft. hose and combination
venturi sluice weighs only 42 pounds. Small enough to fit
into a small rubber carrying pack. Old fashioned dredges
are limited in picking up rock of 1/2 inch diameter or
smaller and can move only two cubic yards per hour, mean-
ing that 90% of the rocks or overburden must be moved
by hand. "Mel's Underwater Gold Separator" will pick up
rocks three inches in diameter or smaller and will move
eight cubic yards of overburden per hour.

Price \$199.00 complete fab from

MEL'S AQUA SHOP

1911 S. CATALINA REDONDO BEACH, CALIF.



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COUNCIL OF UNDERWATER ACTIVITIES OF SOUTH AUSTRALIA



by
ANDRIS LIDUMS

P. O. Box 64
Rundle St.

Adelaide, South Australia

The Council of Underwater Activities is now well on its way, with six months of activities past. All ten clubs are playing an active part at the monthly delegates meet-ings.

In the near future the council will be very busy preparing for the South Australian Underwater Navigation Championship, the South Australian Spearfishing Championships and the Yorke Peninsula Open Championship.

Official publication and recognition of the Divers Flag has been carried out and all boaters have been notified. The Skin Diver's Ball will be held in June. The council has affiliated with the Piscatorial Council of South Australia. We hope to soon have a well trained rescue squad.

**Lone Shark Skin Diving and Spearfish-
ing Organization of Australia**—The Lone Sharks were active over Christmas with three members sailing to Kangaroo Island to spear blue groper and a hundred mile trip where an encounter with 7-11 feet bronze whale sharks kept them anxious as the beasts came in too close for comfort.

U.S.F.A. of South Australia—The club has been busy preparing for the Port Noan-lunga Open Championships being con-ducted by the U.S.F.A. and Jack Arthur. Two hundred contestants are expected to participate. First prize will be \$200 in cash.

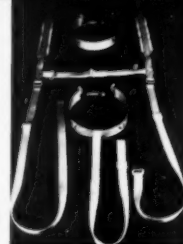
W.R.E. Spearfishing Club—Members traveled to Pandalomie Bay over the holi-days for groper hunting. We understand that Guy Sherman saw a record breaking blue groper which upon inspection turned out to be a four ounce whiting!

Ontario . . .

**Superior Diving and Frogmen Club—
Port Arthur, Ontario**—Reporter David Mc-Laren—Here in the Canadian lakehead we are forming a new club. Jack Coghlan, a professional diver, is going to lend us equip-ment to get started and show us the loca-tions of several wrecks in Lake Superior.

We would like to hear from any clubs in the U.S. or Canada. Write us at 322 Hal-lam St., Port Arthur.

Del Mar Tank Harness



All nylon harness with stainless steel tank bands. 100% adjust-able harness. Our bands fit all standard size bottles. The finest harness on the market today.

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Dealer inquiries invited.

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5 sizes:
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3000 PSI Portable Store or Club Compressor

— 5 1/2 minute fill —

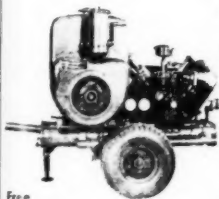
Worthington: 3000 psig, automatic pressure unloader, three stage, four cylinder, welded steel frame sled or trailer mounted. Trailer unit is powered with Wisconsin VE-4. Sled unit is powered with 7 1/2 hp electric motor, 15.0 CFM at 250 psig and 8.0 CFM at 3000 psig. Force-feed oil lubrication. Belt driven, all parts available. Air cooled. The sled mounted, electric units are 4' wide 2' deep and 2' high. Weight approx. 1000. Trailer mounted, gas units are 60" long 55" high and 40" wide. Weight approx. 1250. The above compressors are complete with condensate drains (moisture traps) and discharge air filters as well as a flexible filling hose.

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- Comfortable mouthpiece with non-return valve.

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SNARK II REGULATOR

This is the finest single hose regulator available today! Features a highly effective safety escape valve and rotating mouthpiece. Easier breathing than ever! The very best possible construction! **\$32.50**



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Only mask in U.S. with Safety Plate Glass! (Two laminated tempered lenses.) Permits instant purging of nose without removing mask! Finest seal. Widest vision.

Colors: Yellow, Scarlet, Light Blue, Black



Only **\$6.95**

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Open year round \$1.25

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Open every day 9-7; Fri. 9-9
Good ole' smogless air ME 4-1221
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Wet Suit Rentals, Lung Rentals & Repairs

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Hrs: 9 a.m.-9 p.m. daily EX 7-7229
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Open till 10 p.m., closed Mon. Cert. Air \$1.25

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(Continued from Page 57)

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See the
DIVERS' BULLETIN BOARD
Page 64

for underwater bargains and specials to divers from others in the subsurface club—use the Bulletin Board to **SELL, BUY, TRADE & EXCHANGE** extra equipment—rates are 10c per word, payable prior to publication. Personal notices only, no commercials.

SHARK SPEED

Question: I have seen statements that sharks can swim at speeds up to eighty miles per hour, and that a Professor Magran of France clocked a blue shark cruising at twenty-four miles per hour. What are the recorded swimming speeds of sharks, any species? Raymond M. Gilmore, La Jolla, California.

Answer: It is doubtful that sharks can swim in excess of ten miles per hour. Trolling speed usually is about five knots per hour and when sharks chase the bait it is possible to run away from them by stepping up the speed two or three knots. Possibly such streamlined sharks as the mako and spinner shark can exceed this speed for short distances.

In the book, *Nature Parade*, by Frank W. Lane, a speed table is given on pages 159-161. In this table the mako is credited with thirty-five miles per hour without notation, while the blue shark is credited at 26.5 miles per hour based on the known speed of the vessel. However, the mere listing of such speeds in a formal table does not vouch for their authenticity. From "Sea Secrets."

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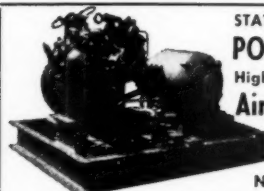
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CONNECTICUT COUNCIL OF DIVING CLUBS

LEONARD GREEN

P. O. Box 1446

New Haven, Conn.

Connecticut divers have been blessed with fairly warm weather so far this year. Skin diving in the cold New England waters has become a year around sport in the past few years. It is not unusual to see skin divers and ice skaters warming themselves by the same fire and sharing about six inches of ice, skaters on top, divers below.

The Connecticut Council Civil Defense Divers Committee met December 5 at the New London Sub Base Training Tank. Council members were Frank Fabbri of the Norwescon Divers, Paul Tzimoulis of the New Haven Tritons and Bob Canary Chief Torpedoman of the New London Sub Base. Also on the committee is Lee Prettyman of the Hartford Y.M.C.A. Gillmen. Frank Fabbri was elected chairman of the committee, and Paul Tzimoulis, secretary.

C.D. procedures, equipment, and organization were discussed but no final decisions were reached because of the uncertainty of the State C.D. organizational set-up. A meeting with State Director W. L. Schatzman was to be held sometime in January.

A C.D. Diver questionnaire form was proposed and discussed. This questionnaire will be sent to all C.D. units to obtain all possible information concerning the C.D. diver man power in Connecticut. C.D. practice dives during the winter months were discussed and tentative plans were made: Fabbri will hold four winter ice dives, Prettyman and Tzimoulis one each, Canary nothing definite at this time. Dates and locations will be given at a future meeting. All C.D. units can participate in these practice dives.

A lot of hard work is in store for the committee but the end result will be a network of skilled diving groups ready for any C.D. emergency, covering the whole state. Within minutes a competent diving crew will be able to reach any disaster area.

The Associated Skin Divers—Hartford—Reporter Shirley Johnson—After a very successful spearfishing season in '59 are eagerly awaiting 1960's apple blossoms.

On January 16 we celebrated the Associated Skin Divers Summer Derby with a trophy dance. Cliff and Shirley Johnson were awarded matching trophies for the largest fish in the men and women's divisions. David Preston was presented the photography award.

Our second annual Sea Scavenger Hunt has been scheduled at Quonachontaug, R.I., May 1. Meetings are still being held at the Hartford YMCA and our members are busy patching suits, etc.

Colorado . . .

Mile-Hi Skin Divers—Denver—Ray Aska—We are still here and diving every weekend, so if some of you brave and hearty souls would like to climb a hill and drop onto and through three or four feet of ice into the nice warm waters (?) of this area, drop me a line and come on out. Write to us at 2225 Birch, Denver.

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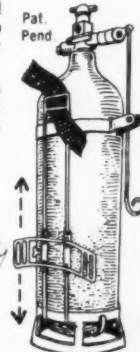
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By Ron Merker

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The G.L.A.C.D. had its election of officers and the new officers are: President, Ron Merker; Vice-President, Dave Dittman; Treasurer, Al Thompson; Secretary, Marge Williamson. The Executive Board would like to have all bills on any money the council owes turned in by April 15.

Copies of the pure air standards developed by the council may still be obtained by writing: Joe Marshall, 15126 Germain St., San Fernando, California. A stamped self-addressed envelope would speed up processing.

On March 27th, the Newport Harbor Sub-Mariners are sponsoring a competitive clam dive and clam chowder at the Newport Pier for the council. For the dive instead of having the clams measured, the largest four clams from each diver will be weighed. Trophies will be awarded for the top three weights. While the dive is going on a group will be getting the chowder started.

After the checking and weighing of the clams, clam chowder will be served. The Sub-Mariners are famous for their food so everyone should enjoy themselves.

Prices will be 75c for divers including chowder and 50c for each non diver. Tickets may be obtained from your council representative and also at the staging area. For further information see posters in your local diving shop or your council representative.

The March meeting will be 8 p.m. March 28th at the Lynwood Recreation Center, Lynwood.

Long Beach Neptunes—Reporter Ted Peterson—Our club has made some club dives at the islands of Santa Cruz and Anacapa. Some of the largest fish taken included a 55 lb. white sea bass taken by John Smith, a 34 lb. halibut by Bob Manicki and a 25 lb. yellowtail by Jim Christensen. The water was clear and there were lots of fish, one of our best boat trips.

Kurt Haveman, one of our active members, is now in the Army at Ft. Bliss, Texas. Ron Jones and his wife are planning to drive to La Paz in February.

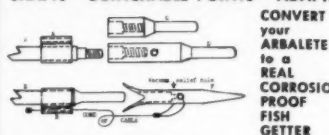
Films of the Malta World Championships were shown at the last meeting by Jim Christensen and world champ Terry Lentz. Dick Roberts just got back from Venezuela for a short visit. He will be back next summer with films on West Indies diving.

Sea Angels of Southern California—Los Angeles—Reporter Don Edmonds—The Sea Angels returned jubilantly from a two day San Clemente-Catalina island trip, well-fed with steak and lobster salad, and tired from so many hours in the water. (We returned on the boat Emerald, we didn't swim back.) Bob Hill was brought in single-handedly by an 8½ lb. lobster. Since we couldn't give the bug our quarterly trophy, we gave it to Bob instead.

(Continued on Next Page)

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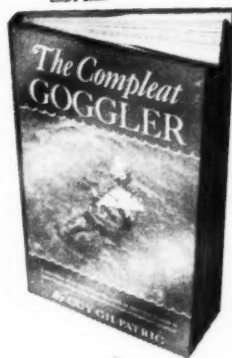
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Here is the first book ever written about "Goggle Fishing," now known as Skin Diving, the classic in the field. Mr. Gilpatric tells exactly how it is done and gives full details, drawings and photographs of the spears and goggles. A new section by James Dugan brings it up to date on the latest equipment.



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Elections were held and followed by a dinner at Knott's Berry Farm. Frank Cruze, who is also captain of our diving team, was elected president, while Chris Lyles and Earl Fox were re-elected secretary and treasurer, respectively. Bob Hill is our new vice-president.

Several of our members went to Puerto Punasco, Mexico, for the annual get-together. They didn't run into a cow this year.

California Marine Aquarists—Los Angeles—Reporter Craig Backhus—A really great evening was begun last December 16th in the Marineland Restaurant for aquarists with a marine bent. After dinner elections were held for new officers. Speaker of the evening was Dr. Ken Norris who has recently returned from Hawaii where he collected, not hundreds, but thousands of marine tropicals. The fish were then transported back to Marineland via a most ingenious invention which is capable of aeration, temperature control, water-movement stabilizer, it's own power facilities, filtration and worked as an all around "wet-nurse". The talk covered his experiences capturing these fish and bringing them back. Then for illustration we were taken to view this machine, a "Marineland-with-handles" that was so successful. Dr. Norris with Dave Powell and Jerry Goldsmith took us for a tour of the latest in Marineland. This featured the small tanks that are being set up and also those beautiful jewel tanks.

The last item of the evening was a special preview of a trained porpoise capable of dramatically demonstrating its amazing ability to locate objects the size of a bee-bee in the tank while blindfolded! Now if you are like me you might wonder with an equal amount of concern not only how he does it, but how does one blindfold a porpoise. This should be one of the most spectacular things at Marineland in the coming season.

Feel like getting in on some of this excitement? For further details call our president, Jerry Fawcett at WE 4-2734 after six for details.

Newport Harbor Sub-Mariners—Reporter John Miller—The Gulf of California was again visited by a large group of our divers. Leaving San Felipe they cruised along by boat, stopping at various islands and points to dive. Luckily, the weather was favorable and the sea was like glass, so they set their course for Angel de la Guardia islands. The trip was a total success. Several large grouper and other fish were taken, besides a fine array of underwater movies and stills.

White sea bass was seen quite often on Sub-Mariner dinner tables this year. The largest one taken was Ron Merker's at 62 lbs. speared at Catalina Island, Alan Woods ended the year by bagging a 49 pounder.

Our new officers for 1960 are as follows, president, Ron Merker; vice-president, Burke Warner, secretary, Carol Merker, and treasurer, Del Bailey.

Kentucky . . .

Mermen of Kentucky—Lexington—Reporter Estill Lyons—We have decided that winter has some advantages, it offers time to repair one's equipment, and time to eat. That is about all that is going on in Kentucky. We are having our meetings the first Thursday of each month. At each meeting we have "pot luck" dinners, sit back and relax, then discuss our diving business. Everyone is putting on weight! It will take many a kick to bring our weight back to normal.

New members are J. P. Brakefield, Fay Bryant, Clyde Bunch, A. B. Hackney, Richard Shely and Rosia Lee Webster. Some of our members are planning a trip to Florida next month.

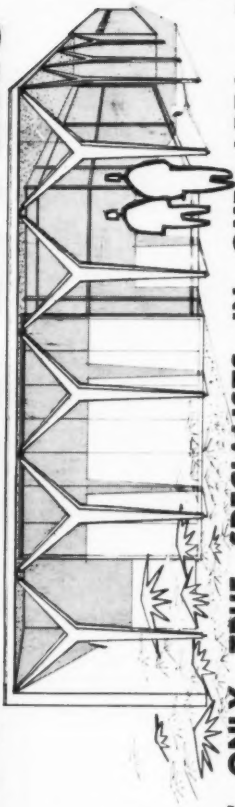
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By **RICK VAHAN**

City Desk, Boston Traveler
300 Harrison Ave., Boston 12, Mass.

The first break in the sensational gangland slaying of a Hartford, Conn., underworld figure came with the discovery of the murder weapons by two Massachusetts Council divers. They are Mike O'Neill of the Boston Sea Rovers and Jack Davini of the Worcester Frogmen. Until the divers' discovery, the only evidence in the hands of the FBI, state and local police was the body of Gaetano (Little Sir Echo) De-Nicola.

Three weeks after the slaying, a group of divers from the Worcester Frogmen and the Aqua Jacks, along with O'Neill, went for a pleasure dive in Worcester's Lake Quinsigamond.

On that dive, O'Neill found a small canvas bag marked "American Red Cross, Hartford, Conn." at the bottom of Lake Quinsigamond. "The thing felt heavy," Mike said. "I thought it probably had a kitten and some rocks in it when I first picked it up." The bag yielded three .32 caliber revolvers, all in excellent condition, indicating they hadn't been in the water more than a few weeks.

Wisely, O'Neill decided to take the guns to the Worcester Police. The guns were checked against a list of guns stolen in a break nearby some months earlier. They didn't check out. But O'Neill had a nagging feeling there was more of this sort of thing on the bottom of the lake. He and Davini went back the next day for another look at the bottom of the lake.

About 40 feet below the surface, part way down a slope, O'Neill found a .38 caliber revolver. As he turned to show it to Davini, the latter picked up a .32 caliber revolver. The pair surfaced with their new finds. The .38 had been fired once but otherwise was loaded. The .32 had been fired twice and similarly was loaded in all other chambers.

(Continued on Next Page)

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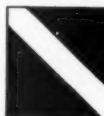
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Davini and O'Neill were greeted as they waded ashore by a hard-faced, unsmiling Worcester Police detective. Although the police had not encouraged the two divers to search for the guns, they were aware the two men had gone back to continue the search. The detective took the two guns and rushed back to headquarters with them.

From Worcester, the guns were rushed to State Police Headquarters in Boston, 40 miles away. A ballistic expert test-fired the two newly-found weapons and checked the slugs from them against those taken from DeNicola's body.

"These two guns I have just tested are definitely involved in the DeNicola case," the ballistics man told the Massachusetts Council's reporter. "I mean, these guns the two divers found today are the murder weapons." Their discovery was the first break police had and it started a new flurry of activity in the case which was the second gangland execution in Massachusetts in as many months.

A possible result of the find made by O'Neill and Davini could be solution of the murder. But one thing is almost certain to result from it. Hoodlums in the New England area who knock off some of their own people will have to find better ways to dispose of their weapons.

Still another result of the O'Neill-Davini discovery may soon be seen in the ranks of the Massachusetts State Police. Head of the State Police, Public Safety Commissioner J. Henry Goguen, has expressed a renewed interest in having trained divers among his police officers.

When Goguen took office last year, one of his first moves was to have 15 of his State Police Academy instructors take lessons in use of scuba and underwater search and rescue techniques.

O'Neill's demonstration of how scuba divers can do police work, stirred the commissioner's desire to have his own men move underwater against the underworld.

The Boston Sea Rovers course for instructors, which was adopted by the directors of the YMCA nationally in a meeting at Chicago last year, was put into operation in Boston. The first YMCA "certification of instructors" took place at the Huntington Ave. YMCA, Boston, with instructor's from most Massachusetts Council clubs taking part.

Even the "old pros" like Frank Sanger, Jim Cahill and Steve Labidini turned out for the certification. Their move gave further weight to the carefully-planned, well-thought-out instructor's course and test. One of the originators of the Boston Sea Rovers instructors course was Neal Hess, now in California but formerly in the Boston area for a short time. Frank Scalli and Walter Feinberg of Sea Rovers were also major contributors to the YMCA adopted course for diving teachers.

Legislative program of the Massachusetts Council got underway with filing of bills to protect divers' interests in the state. The 1960 Legislature marked the bills up for committee hearings and all member clubs were notified of the dates.

Active work on behalf of the bills was begun by the Massachusetts Council's unpaid legislative agent and counsel, Gerry Tierney of the Marblehead Underwater Group, and the Massachusetts Council reporter.

Other councils of the Underwater Society of America facing legislative problems are invited to inquire by writing Rick Vahan, Boston Herald-Traveler, 300 Harrison Ave., Boston 12, Mass. We can't promise a solution to all legislative worries but the way to approach various problems can be indicated. Then the matter is up to the councils concerned and their member clubs.

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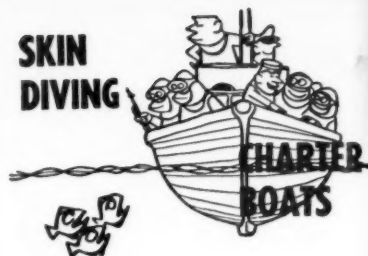
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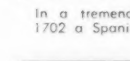
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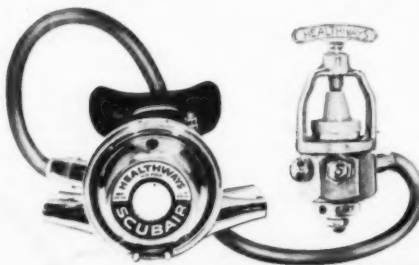
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